Monday April 2 1979





NEWS SUMMARY

ENERAL

ttack planned

anden exile forces yesterday

imed that they were still in position to take the capital

Kampala in spite of con-

med reports that they had an driven back 20 miles from

sicity in an assault appar-ity spearbeaded by Libyan pops supporting President Idi ith. Page 2

emb hurts four

de a warning when the bomb

ed the Japanese business-

held hostage in El Salvador

ainmst four months. The

of voting three soldiers

Hi killed and anomer bisided by gunmen who bised fire outside a Tehran sing station. Page 2 killed and another

a police believe thieves

stole about £500,000 worth

old and plantinum from tho

r-Rome express could have

urban guerrillas. The

stopped the train by using

ortage feared

the during the summer asse the latest wet, cold

tio fell for the station's bil Fool joke, They jammed switchboard with protest

is after an announcement

Hiery disaster two weeks ago

Relage of a light aircraft sing since Friday was found

terday in Clwyd, Wales. Both

it and passenger were dead.

n died in a fall yesterday at

Pheros Crag, Borrowdale, in

apital joke

tiefly . . .

Lake District.

derrilla theory

te same time is unknown.

public vote

estage freed

BUSINESS

Beaten Row hits talian pay talks for civil remier servants esigns

SERVICE'S higgest unions decided yester-Italian coalition pew Italian coalition terminent of Christian Demo-its Republicans and Social day to try to dismantle the whole national negotiating machinery for Britain's 600,000 civil sermorrats was defeated in the vants in a bout of inter-union wrangling. bekend by one vote, opening be way for an early General Today, civil servants are

staging a one-day strike, which is likely to affect civil aviation, After the 150-149 vote, Signature Andreotti, Prime courts and government services.

about economic prospects continued to decline last month, according to the FT survey of business opinion. Confidence remains at the lowest level since the end of 1976, when the International Monetary Fund loan package was being negotiated. Back Page ion to Sig. Sandro Pertini, the Halias Resident.

Sig. Partini is now expected in Associate Parliament to comthe General Election with fie the General Election with Scious for the European ariament due in Italy on the 10. Back Page

● EEC FINANCE and Foreign Ministers today begin a meeting in Luxembourg to discuss the Community's hudget and Euro-pean political problems. The British team, led by Dr. David Owen, the Foreign Secretary, is expected to protect at the conexpected to protest at the con-tribution levied from Britain. Back Page

GOVERNMENT funds of about £100m.£150m are ex-pected to be announced today cer bomb explosion yesterday the centre of Omagh, County trone injured a policeman and for BL formerly British Ley-land, and the way will be cleared for the Industry Bill to civilians, and damaged a of shop fronts. Police receive Royal Assent giving the NEB a borrowing ceiling of £4.5bn. Back Page dathey were clearing the area

OPEC price rise Salvador guerrillas have takes effect

o OPEC OIL PRICES have by an average 17 per co of the two Britons abducted cverlar adding an es \$23bn a year to the we imports bill according to the ket estimates. The European prous leader Ayatoliah Community alone is expected to pay at least \$70n (£35)n) a sign Islamic Republic after year more as a result of arrangeresults of the two-day ments with leading exporters last week.

• STERLING'S strength is is Britain's biggest economic problem at present according to a forecast by a group of Cambridge economists. Page 4

• BANK LENDING to manufacturing industry rose sharply in the three months to mid-february, although the Bank, of England's figures are likely to have been boosted by indus trial dispytes. Page 9

ectronic device to change signal, and unhooked the ROLLS-ROYCE MOTORS has started talks with U.S. Teledyne Continental Motors Corp., about five carriages carrying the a possible licence agreement to make / R-R military diesel engines in the U.S. Page 4

ners have warned that the tage of vegetables caused be Arctic winter is likely to • TEAMSTERS' union in the V.S. announced that it would immediately start selective strikes against American road ther is preventing sowing. haulage concerns following a breakdown in pay talks. Back

step fell for the station's may recommend to the Govern-iell Fool joke. They jammed ment in about a month to give salary increases of 5-10 per cent to chairmen of nationalised if the Government planned to industri industries and top civil servants.

COMPANIES

ath toll in the Golborne • BROKEN HILL Proprietary. Australia's largest company, is e yesterday to 10 with the in in hospital of Raymond I 33. to make a one-for-five scrip issue, its first since 1974, following a sharp jump in profit for the November half-year to A\$87m (£47.8m) which exceeds the full 1977-78 profits. Page 29

> • LAIRD GROUP second half profits rose to £6.29m (£5.08m) bringing 1978's pre-tax profit to £11.12m (£9.09m). Page 28

- CONTENTS

eat to nuclear policy 14 blic service grievances: y civil servants strike 27 inagement Page: Bofors s its sights on a new get 10

5. reactor disaster: the Tenants' families and the Berlin 33-36 Editorial Comment: Northern Ireland; EEC farm

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Lombard ornments
ding Notes
nessman's Dry
Opin. Survey
tpany News
asword
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noted Djary Management Men and Matters... Money & Exchnges

For lutest Share Index phone 01-246 8026

Base Lending Rates ANNUAL STATEMENTS Hong Kong Land... The Laird Group ... Scot. East. Inv. Tst. U.S. Deb. Corpn. Thomas Witter ... INTERIM STATEMENT

BL in talks with Japanese group on UK venture

BY ARTHUR SMITH, MIDLANDS CORRESPONDENT

Talks are taking place between BL, formerly British Leyland, and a Japanese company about collaboration on car assembly in the UK.

Mr. Michael Edwardes, Ell versy surrounds the unofficial but detied that plans had been chairman, has called a conference of senior executives and union leaders in London next Monday at which details of any possible deal are expected to be

BL has made po serset of the need for some farm of collaboration or partnership to guarantee the long-term metibity of

tee the long-term whibity of its car productions in the convicue weakpess is its middle-range case, where the LC-10 replacement, for the Marina and Allegroi scheduled for Cowley, Caronic is not expected to be resty for the market until party 1983.

Shortage of technical assurces has delayed development of the new car and raised doubts as to whether BL will be

doubts as to whether BL will be able to generate enough finance for the project.

Hopes of an early link with
Renault, the French State con-pany, have faded. Talks about

joint ventures in component manufacture and assembly have made little progress.

quota system by which the Japanese have agreed to hold penetration of the UK market between 19 and 11 per cent.

for the quick introduction of a

deal would depend partly on how rapidly the use of Britishmade components built up. higher beca The issue seems bound to other casts. figure in the General Election Mr. Edwa debate. The Conservative Bow Group recommended in a recent pumphlet that BL should be tirged to seek a joint venture

a stop-gap. The attraction of any

with Japan. The political implications. So Jaguar Rover Triumph has however, spread far beyond channed the names of its North Britain. The question is likely American sales companies. In the be raised in the EEC of the U.S. the company will trade whether Japanese involvement under Japane Rover Triumph in the UK might provide a Inc. and elsewhere it will be springboard for wider European Japane Rover Triumph Canada.

suggested or were pending to close its assembly plant at Senoffe, Belgium. Senede, which employs 3,000

Negotiations would undought- workers on assembling the Mini-edly be sensitive. BL is looking and Aliegra, has recently been working only two weeks in four now middle range car to sate because of weak demand. BL suard employment at Cowley, said that the plant had been where the Marina and Maxi are under review, with others in the porduced.

Licensed assembly of a called for by Mr. Edwardes
Japanese car could only provide more than 12 months ago. In splie of the good perform-ance of the Belgian plant, unit cost of vehicles was about £200 higher because of transport and

> Mr. Edwardes made clear at the :nncuncement of the annual results last month that no big plant closures were envisaged. He specifically ruled out closure

Inc. and elsewhere it will be The obvious advantage for the springboard for wider European Jacuar Rover Triumph Canada sales.

BL would be to sidestep project about foreign imports. Confee- night about any collaboration Were finds for BL, Back Page North America takes about a

Rees announces tighter security for MPs

BY ELINOR GOODMAN, LOBBY STAFF

THE HOME Secretary said yesterday that steps had already been taken to tighter the

But both Mr. Merlyn Rees. and Mr. David Howell. a Conservative front bench spokes- per cent. man on Home Affairs, stressed that terrorist activities should not be allowed to interfere with the election.

Nevertheless, Mr. Neaves' death cast a shadow ver the weekend and the unofficial campaign got off to a muted start. MPs were still clearly shocked by the incident, Mrs. Margaret Thatcher had still not decided whether to use her right to reply as Leader of the Coposition to make a ministerial broadcast before the time limit expires tonight.

Conservative Press advertisements for the Sunday papers were cancelled because of Mr. Neaves' death and Mrs Thatcher seems unlikely to compaign publicly until his funcial on Wednesday or Thursday

Mrs. Thatcher's hopes of winning a clear majority of May 3 were given a further boost yesterday by an opinion poll carried out for London Week-end Television in 100 of the most marginal seats in Britain. emergency meeting today its

aboved Tories could tendented

inflation. The Conservatives were ahead on law and order and expectation yesterday in the MPs was that it might like on more importance temperative following Mr. Neaves' might but that with almost of more to go before the poll, it while not have a bit affect of the poll of the poll

not have a hig affect on the po The official campaign is no due to start until April 9 and though everything that is said, by politicians this week will be seen in the context of the elec-tion—including the Chancellie's introduction to the agreed shortened Finance Bill tomoretee -much of the activity will take place behind the scenes. At the request of its left-wing measurement, the Labour Party's Management of the control of the cont

stern of the faily press con-

the sarrey also showed be sten of the faily press conthe voters in these key cob ferences until the following
stituencies thought the Com week even if, as expected, the
servatives would be the best other parties started theirs on
party to deal with all the major Andi 9
issues except unemployment. Labour had hoped that Mrs.
The voters main concern was Thicker might expose what Thitcher might expose what the regard as her weaknesses diging a leng compalen but it looks as if the Conservas will try to project other

law ministers during the week of the campaign safer than allowing it to device into a straight run-off en Mrs. Thatcher and Mr. Callenan.

Official not that Mrs. Thatcher popular than the Prime but that the Conserva-What to fight the Conservaon colline rather than person-alities and by taking the cam-pain to the country in the first seed rather than getting borred down in daily press conferenes, they will show the dif-fereness between the two

Airlines agree on fare fises

BY MICHAEL DONNE DEFENCE CORRESPONDENT

to meet soaring fuel bills.

More than 100 memberairlines of the International Air Transport Association reached broad agreement on this rise in Geneva over the seekend. But it is still subject to some final adjustments at a meeting loday and to the approval of all the governments of the airlines

It will then be left to indiwhat level of rises is most appropriate to the prevailing econo-

THE WORLD'S major sirlines be as much as 10 per cent were are expected to reach final agreement today to raise passenger fares and cargo rates by IATA.

IATA called the meeting to consider fares increases to meet the passenger final bills over the second final bills. the sharp rises in fuel bills over

the past three months. These stem not only from the Iranian oil supplies cut-off but also the general increases in prices announced by OPEC both from January 1 and earlier last week. These crude oil price increases will cause the cost of

aviation gasoline to airlines to rise from the present average worldwide of 48 cents a U.S. vidual airlines to determine gallon to about 60 to 65 cents mic circumstances. Sugges a gallon is likely before the end tions that the increases might of this year.

en absorbing the extra ost offuel and rises in labour cost offuel and rises in labour tharges landing fees, navigation elerges, equipment costs of charges in exchange rates. hargis have been reduced considerably and airlines have reported be point where they say they can no longer absorb the line page. the increases.

Holiday charter operators are also applying surcharges on package iplidays, especially those from the UK to the Continent.

British Airways Sovereign holidays, for example, is telling a gallon by mid-summer. A all its clients that they must pay further rise to 70 cents or more surcharges up to about 4 per cent or 5 per cent a person on summer holidays.

Thorn considers U.S. purchase

BY JOHN LLOYD

tronics and TV set manu- for the company's products. facturers, is understood to be Further expansion, in either the conducting serious negotiations UK or the Irish Republic, is for the purchase of a medium- planned. sized U.S. company, Modular Computer Systems, of Fort

Lauderdale, Florida. International Telephone and outright purchase.

It has subsidiaries in France. ment on the possible purchase. Oxygen holding com Germany and UK. The UK but said that it was examining BOC acquired Airco.

THORN Electrical Industries, plant at Wokingham, Berkshire, a number of opportunities in one of the UK's leading elect recently opened a test facility the U.S.

A spokesman for Modular on sales of £1.1bn, up from a Computer Systems said that profit of £102m on sales of three companies—two large £993m the previous year. The U.S. company, which had multinationals and a private

Thorn would make no com-

Thorn had reserves of £192.7m at the end of the 1977-78 financial year. In the same year, it showed a pre-tax profit of £110m

Last week it announced the sales of \$65m last year and organisation-were interested in appointment of Mr. Peter Laisemploys 1.200 people, manu-factures computerised process private company's interest was succeeds Mr. Jack Strowger in control equipment. Its custo-new "dormant." Both multi-mers include Union Carbide and nationals were interested in an director of Ellerman, has had senior executive experience in the U.S. as chairman of a British Oxygen holding company after

Carter inspects leaking N-plant

By David Buchan In Washington

PRESIDENT CARTER yester day flew to the crippled Penn-Sylvania nuclear plant, whose reactor was reported stable and cooling very slowly—but still plagued by a build-up of hydrogen gas inside.

The inspection tour by the President reflects the intense national concern focussed on the Three Mile Island plant since it was hit by an accident last Wednesday and poten-tially dangerous complications

Four workers of Metropolitan-Edison, the power company operating the plant, have been exposed on the site to more radiation than is considered sale over a three-month period. Low-level radioactive gas is still escaping to a wider area around the plant.

Pregnant women and young children have been advised by the Governor of Pennsylvania to stay at least five miles from the plant. In all, a couple of thousand people are believed to have left the immediate area!

Mr. Joseph Hendric, chairs man of the Nuclear Regulators Commission (NRC), which is co-ordinating the attempted shut-down of the plant. Said steps to zet rid of the hydrogen gas bubble inside the rescore within the next devices a rescore within the next day or so might entail evacuating all people 10 to 20 miles downwind of the plant, sited on an Island la the

The nuclear accident and The nuclear accident and public fears about its aftermath will inevitably been hearly on the energy policy statement for the President is expected to issue shortly. Mr. Carler, who visited the six of a Canadian nuclear accident in 1985 while a nuclear extinct the U.S. Navy. Insofted the reactor's control only a dar after the NRC amount of the compalant that the short is should be should

other reactors of an eight identical design. Thirteen antidemonstrators were arrested on Saturday for climb, with Israel in ing the fence of one of those eight reactors in California.

abroad—have expressed keen interest and concern in the Carlew in Middletown, Page 2

U.S. reactor disaster-threat to nuclear policy, Page 14

decides to boycott Egypt

Arab League

BY ROGER MATTHEWS IN BAGHDAD

A DECISION by the Arab League at the weekend to impose an almost total political, diplomatic and economic boy-cott on Egypt is seen in Iraq as a decisive switch in the Arab

world's balance of power.

The meeting forced Saudi ambassadors from Cairo.

Arabia and the other moderate

Diplomatic relations are oil-producing Gulf states to join more militant Arab countries in working directly against the Egyptian-Israeli peace treaty and against efforts by the U.S. to make the treaty a corner-

stone for wider settlements in the Middle East. The agreement by 19 of the League's; 21 members was greeted as a triumph for Arab

Sudan and Oman did not agree. They have consistently sup-ported President Sadat's peace initiative and sent no reprcsentatives to Baghdad.

For the Palestine liberation organisation, the outcome, after

five days of intensive bargain-ing by Foreign and Economic Ministers, was halled as a "great

Saudis' price

For Prince Saud Al-Feisal, the Saudi Foreign Minister, it was an occasion of "regret and sadness I that President Anwar Sadat had made such decisions necessary. Saudi Arabia did not believe that having to take such sanctions against Egypt was a cause for rejoicing, but it would implement all the decisions deached at the conference. Iraq and Syria, which effectively led the opposition to President Sadar's peace effort.

have every reason to feel satisfied. They consider their achievements the "minimum acceptable," however, Nothing prevents individual states from imposing even toucher action against Etypt,

The swing to the Constitute and the Constitutes of the Constitute of the peace of the swing to the Constitute and the Constitute of the Constitute of the Constitute of the peace of the constitute of the Constitute of the Constitute of the peace of the constitute from a long campaign, said that further inspection of the Constitute from a long campaign, said that further inspection of the Constitute of the peace treaty, will not be taken. That the Constitute of the Constitute of the Constitute of the Constitute of the peace treaty will not be taken. That the Constitute of the Constit A positive aspect, as the Saudis, may be that the

conference decisions will force the U.S. to be much stricter negotiations, starting in three weeks on the autonomy plan for

many detailed decisions remain in he taken. The Arab Boycott Office in Damascus has responsihility for deciping individual elements of the boycott.

The main decisions include suspension of Egypt's member-ship of the Arab League; removal of Arab League headquarters from Cairo to Tuniswithin two months; and immediate withdrawal of Arab

Diplomatic relations are to be cut in a month after constitucountry. It is widely expected. however, that many Arab countries will maintain sizeable "interest sections" in Egypt, effectively for diplomatic work.

Loans, bank deposits, guarantees or financial, material or technical contributions to their Eg pulan Government or related budies are to end. Economic ald from Arab funds. is to be banned.

Arab joint ventures with the Egyptian Government or tis institutions must be halted. That might effect the Arab Organisa-tion for industrialisation, under which an armaments industry is being built up. Work is advanced in Egypt for produc-tion of the British Swingilre anti-tank missile and the Westland Lyox helicopter, in a \$400m deal.

Arab Governments and their institutions are to refroin from taking shares or participating in "general debt" issued by the Egyptian Government.

As Egypt has agreed to pro-vide Israel with oil, Arab countries will refuse oil to Egypt. Commercial transactions with the Egyptian Government and companies dealing with Israel are banned. Special care will, however, te

taken to maintain good relations with individual Egyptians working in Arab countries.

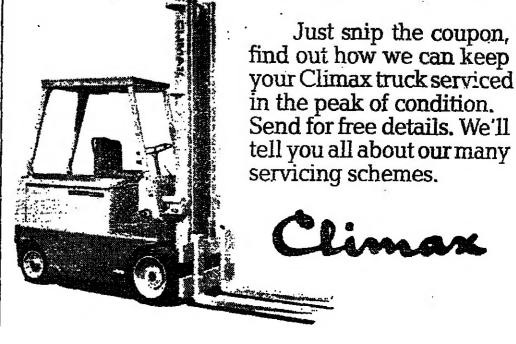
Minimum level The United Nations will be

acked to transfer its regional offices from Cairo. Members of the conference will seek Egypt's suspension from the Non-Aligned Movement, the Organisation of African Unity and the Islamic Conference.

The scope of those decisions goes beyond the "minimum level" agreed at the Baghdad summit last November and must come as a serious psychological blow to President Sada:. It Foreign governments—as well the occurred to prove and anti-nuclear lobbies abroad—have expressed keen the lions will only become clear that the Arab safety net provided in the past by Sandi Finesit Oater and Abu Arabia, Kuwait, Qatar and Abu Dhahi has been removed. Discing even prester emphasis on successful economic policies

To: Coventry Climax Limited, Sandy Lane, Coventry CV1 4DX. Tel: Coventry (0203) 27711. Telex: 311192. Name _ Company ______ Address _____

SHORT GUT TO A TER SERVICE



UNITED STATES DEBENTURE CORPORATION

Year Ended 31st January, 1979. Extracts from the Directors' Report.

Main Features	1979	. 1978
Gross Revenue	£5,041,848	£4,604,895
Per Ordinary 25p Stock Unit :		!
tarnings - Basic	4,21p	3.770
Earnings — Fully diluted	4.190	3.74p
Dividend	4.05p	3.520
Net Assets	£88,308,218	£77,084,414
Net Asset Value ner	,	
Ordinary 25p Stock Unit:		b :
Basic	121.6p	106.2p
Fully diluted	121.1p	105.7p

Dividend and Revenue Your Board are pleased to recommend that the total net dividend per stock unit for the year be raised 15.1 per cent. to 4.05p. This increase compares favourably with the 9.3 per cent. rise in the Retail Price Index during the year. The advance in your dividend can be directly attributed to the 13.4 per cent. expension of offer rax revenue available to Ordinary stockholders to a record level of £2.863 millions.

Over the last ten years, your Company's gross dividend has risen by 154.5 per cent. compared with a 129.1 per cent. rise in the notional dividend on the Financial Times All Share Index.

Investments

During the year, the total net assets of your Company advanced by 13.7 per cent. to £88,308 millions. The underlying performances of our two principal areas of investment, namely the United Kingdom and North America, are detailed below.

The value of the United Kingdom portfolio grew by 8.2 per cent. compared with the 9.6 per cent. increase in the Financial Times Ail Share Index for the same period. Whilst this comparison is perhaps a little disappointing, it should be borne in mind thatthis index contains 750 constituents, many of which are very small companies. By contrast, the Financial Times Industrial Index, representing thirty large companies, was a bare 0.1 per cent. higher for the same period.

companies, by contrast, the Financial Times Industrial Index, representing thirty large companies, was a bare 0.1 per cent. higher for the same period.

The North American portfolio advanced by 24.5 per cent. This compared with a 23.9 per cent. increase in the Standard & Popra Composite Index, both of these indices being adjusted for movements in the investment currency premium and the exchange rate. In making these comparisons, it should be noted that your Company's investments in the United States of America are vilued at more than five times those in Canada. The percentage of trail assets invested in North America rose to 35.7 per cent. (1978; 32.4 per cent.), whilst the percentage in the United Kingdom decreased to 63.5 per cent. (1978; 66.8 per cent.). These percentage changes were almost entirely due to relative Stock Market movements together with the marked 66.5 per cent, rise in 11.6 per cent. of total net assets.

The 1978 Finance Act introduced legislation lowering the taxion Capital Geins within investment Trusts from 17 per cent. to 10 per cent. risrospective to April, 1977. This legislation was most welcome.

The classification and distribution of net assets shows that 15 in per cent. of total net assets were invested in the oil and gas exploration sector, both in the United Kingdom and North America. This is in accordance with our declared policy of an above average portfolio weighting in energy and energy related stocks.

Only time will tell the extent to which the new regime in Iran will restore lost production, but it is comforting that many of the energy company shareholdings that your Company owns stand to behefit from the increased potential-worth of their known reservee of bil, gas and coal.

Summary
We believe that the Stock Markets of the United Kingdom, the
United States of America and Caneda will all be at higher levels in
a year's time. However, in the shorter term, there may well be
reactions to lower levels. Nevertheless, we believe that conditions
exist in these three areas of investment which are conducive to

improvement in share markets over the longer term.
Policy
Both within and outside the investment Trust movement there has been much discussion on the specific roles that Investment Trusts have to play. At such a time, it would therefore seem appropriate to re-state the policy of your Company and to portray its character. Our objects continue to be to provide a rate of increase in dividend income in excess of the national inflation rate whilst attaining an acceptable rate of appreciation in the Company's investment assets. It is intended that these objectives should be achieved through the medium of investment in the United Kingdom, the United States of America and Canada, principally in equities, it is not the present intention of your Company to invest, in a significant way, in other areas. We like to feel that these policies are in accordance with the long-term requirements of our shareholders, both private and institutional.

The Annual General Meeting will be held on 16th May, 1979 in London.

Notice of Redemption
SOCIETES DE DEVELOPPEMENT REGIONAL "SDR" 91% 1975-1987 EUA 25,000,000

17372 to 17897 inclusive

have to be presented for attiched streets.

Thermore the holders are informed that the annual instalment of 00,000, due 5th May 1979 has been effected by drawing by lot of odds of EUA 1,000,—each.

Tollowing bonds have been drawn on 19th March, 1979 in the

5490 to 15491	-	16345 ta 15347		76957	
15496 to 15497		16371 to 16374		16962 to 18963	-
15601 to 15603	**	16376 to 16384		16967 to 16968	-
15711 10 15726		15407 to 15410		15990 to 15992	**
15730	**	16416 to 16431	-	16995 to 17048	
15/30		104.0 10 10431	**		54
15736 to 15737	-	16601 to 16612	-	17085 to 17068	**
15749 to 15750	**	15515 -		17101 to 17102	
15925 to 15927		76618 to 16619		17152 to 17158	-
	-	18627 to 16630		17160 to 17161	
15952 to 15953	**		-	17100 to 17101	-
15961 to 7 59 67	44	16635		17181 to 17194	ge
15971 to 15999	-	16639		17224	
16060 -		16707 to 16719	Fe .	17234 to 17235	-
16084 to 16090		15714		17237 to 17239	
10004 to 10030	-			17237 10 17239	26
16203 to 16205	-	16737 to 76750	P1	17243 to 17245	99
16241 to 16242	**	16791 to 16792	-	17333 to 17337	
16247 to 16248	-	16796			
1824) to 12240	-				
•		PANOTE IN	-	TIONALE & LUXEM	A.

Curfew and geiger counters in Middletown

thousand yards from the vania's only black mayor, said not panicked, stricken nuclear reactor that half-seriously "shoot 'em."

Several thousands ominously out in the His reaction is typical of the area to stay we

broad Susquehanna River, still area, situated between the site spewing out plumes of radio- of that 19th century bloodbath, active gas and vapour. Mr. Gettysburg, and the Pennsyl-Robert Reid, the town's mayor, vanian Dutch country to the ordered the curfew—not be east, where fundamentalist cause the governor of his State Amish and Mennonite sects had advised people to stay regard buttons, let alone nuclear indoors as much as possible generators, as dangerously new-Wednesday's nuclear fangled. Torn between the now accident-but to prevent loot-very real danger of radiation. ing. So many of its 11,000 and a stolid, workmanlike view population have left Middle-that nuclear power, like any town that their empty houses other energy-producing busi-

take early holidays, and the 70,000 inhabitants of Harrisburg

customers by this weekend-

David Buchan reports from the scene of America's worst nuclear accident

were joited by a general alarm suspended in uncertainty. They siren accidentally set off in the bave seen the men with Geiger Pennsylvania State capital on goursters on their streets. Some, Friday. But only one evacuation granting into Press conferences

Several thousand have left the family and children with no-area to stay with friends or to imhere else to 20.

So for the moment, Pennsylivanians' like everyone else, are

dent has increased local read Metropolitan Edison, the condents chances of cancer, though Metropolitan Edison, the condents has one or two cases for pany that runs the plant. only by one or two cases for every 10,000 of them exposed Energy Department is preto 1,000 millirems of radiation in force, —a level the NRC does not think will occur—and the area's farmers have been alarmed by no one had much clue hot area. the report that at least one supermarket chain, Safeway, ried out chiefly in Washing has stopped buying Pennsyl-

vanian milk The country's resources are now mobilised to deal with the

THESE DAYS there is a 9 p.m. invite pilfering. Asked what he ness, is risky but necessary, the centre, at Hershey (better in Middletown, have heard err on the side of cantion and the ness, is risky but necessary, the centre, at Hershey (better in Middletown, have heard err on the side of cantion and Nuclear Regulatory Commission safety." Top NRC inspectors to 7 a.m. curfew in Middletown, would do with looters, Mr. Reid, 150,000 people within 10 miles known as the chocolate-making officials estimate that the acci. from Washington are new thousand, only a few who boasts of being Pennsylvania, only a few who bear a f

when it would end will he by the NRC and Congress. Mr. Reid, the Middle mayor, says that he and fe local officials will want

Peking decree silences wallposter dissidents

THE PEKING leadership has their only canvas for free effectively silenced the voice of dissidence and democracy in the city, both by decree and by ship has made it clear that ex-swiftly erasing the wallposters pression is not to be as free were their visible

Laneways, walls in Pelding's main shopping streets and con-struction-site fences were conspicuously unadorned yester-day following a city-wide

Wallposters remained at the "Wall of Democracy" at the city's west end, and an realising that this was now

The Communist Party leaderdiscipline.

pression is not to be as free A "public notice" circulated quietly a few days ago prohibits slogans, wallposters, publications and photographs that oppose socialism, proletarian dictatorship party leadership or rx-Lenin-Mao Tse-Tung

An announcement printed on the front page of the local newsunusually big crowd of readers paper Peking Daily yesterday gathered there yesterday, called on the public to help police enforce the rules and

warned that violators faced physical labour, education and

The measures, which the paper said had been adopted two days ago by the Peking Revolutionary Committee (city council), followed similar steps to Sharghei suthorities carlier by Shanghai authorities earlier this month.

Demonstrations are to supervised by police and dis-turbances in Government institutions are forbidden. The new moves are a tough

suppression of the wave of liberalism which has gathered strength in Peking since last

THE ARAB LEAGUE BOYCOTT

Egypt in political isolation

BYOUR CAIRO CORRESPONDENT

the removal of the Arab League pectedly left for home. headquarters to Tunis, is likely hupt, Egypt more than the and any oil borott would be tian authorities.

ineffective becase Egypt is Meanwhile Cairo is preparing to greet Mr. Menaham Begin, the sufficient in oil.

Winister who is almost field sufficient in oil.

Calls to withdry Arab bank deposits are unlike to affect due here today on a 24-hour link with the U.S. and that this Arab fire and the provide a potential link with the U.S. and that this Arab fire and the provide a potential link with the U.S. and that this show of Arab support reduced in Cairo, and the provide a potential link with the U.S. and that this show of Arab support reduced in Cairo, and the provide a potential link with the U.S. and that this show of Arab support reduced in Cairo, and the provide a potential link with the U.S. and that this show of Arab support reduced in Cairo, are though it for the Arab world.

Safety figures with the rest in the Arab international safety provides with the rest in Cairo, even though it fought a bloody four-day war with the Arab world.

Mr. Begin will not address the figure that Syria was considered the provide a potential link with the U.S. and that this show of Arab support reduced in Cairo, even though it fought as provided a potential link with the U.S. and that this show of Arab support reduced in Cairo, even though it fought as provided a potential link with the U.S. and that this show of Arab support reduced in Cairo, even though it fought as provided a potential link with the U.S. and that this show of Arab support reduced in Cairo, even though the fought as provided a potential link with the U.S. and that this show of Arab support reduced in Cairo, even though the fought as a consideration of the Arab world.

Mr. Begin will not address the first that Syria was considered the fought as a consideration of the Arab world.

Mr. Begin will not address the first that Syria was considered the fought as a consideration of the Arab world.

Mr. Begin will not address the first that Syria was considered the fought as a consideration of the Arab world. Egypt in July 1977 and has had no diplomatic contacts since. Kuwait, Bahrain and Saudi

Iran_votes for

Islam republic

TEHRAN-Ayatollah Ruhollah Khomeini announced yesterday

Namibia talks start

Mr. P. W. Botha, the South

African Prime Minister, and Mr.

R. F. Pik Botha, the Foreign Minister, will hold talks today with the South Africa-sponsored

constituent assembly in Namibia to decide whether or not finally

to abandon the western efforts for an internationally-acceptable settlement in the territory, Quentin Peel writes from Johannesburg.

Mr. Zulfikar Ali Bhutto, the

former Pakistan Prime Minister, was yesterday reported resigned

to his fate on the gallowsdespite pleas for mercy from a former Ministerial colleague. Reuter reports from Islamabad.

Bhutto 'resigned'

More problematic is the fate economic spections passed by Deposits held by Kuwait and Arab of the Lague in Baghdad. Saudi Arabia in Egypt. Syria has Fig. 1, trade with the Arab Attempts to withdraw these to come world accounts for only about funds before time would be Egypt with a particular would be time authorities.

Arabia yesterday announced that Damasens: Syrian Government a confrontation in Lebanon

POLITICAL isolation, including Tunisian ambassador unex-defined them only as a required minimum, as provided expressly in the clause permitting each country to do hore if its wants. Arab diplomats here said that Syria had gained time in which to concentrate on isolating Egypt while trying to avoid a

> They were happy that Saudi Arabia's agreement to the boy-cott could provide a potential

confrontation with

hoped,
Anthony McDermett and Sanon. There is concern Michael Tingay and from here that Israel might provoke their ambassadors were being officials yesterday welcomed the with Syria, to test Egypt's withdrawn from Cairo and the Arab League resolutions but adherence to the treaty.

economy certain

adjustments had to be made, it

was unjust and shocking that

entire regions should be victimised and their workers

Vf the Government, which is dependent on Gaullist Parlia-

mentary support, had gone too far in its industrial reconversion

policies, it had been much too restrictive in its general economic policies. M. Chirac

reduced to a state of despair.

Chirac re-elected as Gaullist party president

M. JACQUES CHIRAC was Referring to the French re-elected President of the Cavernment's industrial restruction of the steel conference during when he strongly attacked bold the Government's economic policies and the Common Market Line authorities had acted much and the Common Market Line authorities had acted much former Prime Minister. that Iranians had voted "unanimously." for the transforntation of the antion into an Islamic republic, according to the state radio, AP reports from Tehran. He decreed that April 1 henceforth be known as "Republic day" in honour of the result of the nation's

The former Prime Minster, who resigned in 1976 after, policy differences with resignent Giscard d'Estaing, we then dent Giscard d'Estaing, was the only candidate running to the Gaullist leadership and wa delegates' votes.

re-elected by 97 per cutton M. Chirac was parteular scathing about the wy it European Communit currently functioning.
The European insightion

had proved to be impount bo in dealing with internal col munity problems a:d' threats from outsice. Brussels Commission, second to M. Chirac. had r take effective measured to 50 ive It had also stood by edwer less while certain of Iral ice's partners—a clear revenue to the UK—had blocked common decisions.

U.S. airline

stops flights

By Stewart Fleming in New York

WIDESPREAD disruption is threatened to air travellers across the United States as a result of a decision by United Airlines to cancel all flights until April 9. The nation's largest carrier takes an average of 130,000 passengers a day to 110 cities.

Some 18,600 mechanics, members of the International Asso-ciation of Machinists and Aerospace Workers, went on strike on Saturday over a wage claim. Although United has offered a 30 per cent increase over three years, the workers want an unlimited cost of living protection

The 30 per cent increase, well above the Carter Administration's anti-inflation guidelines, is allowed because of an earlier settlement in the airline industry, before the wage guideline policy came into effect.

FINANCIAL TIMES, published daily except Sundays and holidays. U.S. subscription rates \$385.00 per ennum. Second cless postage paid at New York, N.Y. and at additional mailing contres.

Nigeria sets tight budget line

By Cur Lagos Correspondent IGERIA'S MILITARY governent his prepared a Naira 9.5bn e7.48bh) budget for the finan-dal year which started yesteray, providing the economic nidelines for the elected vilian government due to take

er in October. As articipated, Lt. Gen Chasanjo, the Head of State, had tle confert for the few mists who had hoped for an esting of the tight economic chirols in the past copie of years. Four more itens—artificial flowers, firewers, shoe uppers and toothpate—were added to the all ady long list of prohibited imports and an additional 25 omodities were placed on the dule of those requiring licences - which ctively means an extension

he ban. The National Petroleum Cortion jumped to the top of line of beneficiaries from cap al expenditure allocations. I takes Naira 1bn from the tota of Naira 6.6bn, a figure while was slashed from Ministry sovernment agency requests Vaira 13bn. Following the came the Ministry of cs (Naira 886m), e anti-inflationary packet

des an extension of the ear-old wage freeze for all but he lower income group, an to car loans and basic allorances, and a ban on footbools and casinos.

Go. Obasanjo blamed the 197-pay awards, which provided for passive salary increases in cases back-dated, for one year for the mest ears of high sales had

stantial reassurances before accident, following President Carter's advice to everyone " to . plant ever starts up again. Uganda rebels 'set to take'

Kampala despite reversals BY MARK WEBSTER IN NAROBI

UGANDAN EXILE forces said pesterday that they were still in a position to take the capital Kampaka, despite confirmed re-ports that they had been driven

again be head to diver the city and been driven here said that even though the invasion force had been pushed back. Kampala said ling-range artillery.

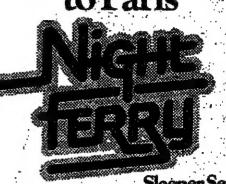
Diplomats in Kampala said long-range artillery.

Libyan soldiers supporting President Amin had apparently spearheaded the assault on the Tanzanian - backed invasion force, which had dug in only six miles from Kampala.

Residents in the capital said shelling could again be near to the south of the city when two quiet mights. Diplombe

the once heavy shelling of Kam-pala stopped at about the same time as the Ugandan Govern-ment claimed its victory.

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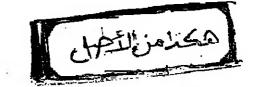
IS PLEASED TO ANNOUNCE THE OPENING OF ITS

REPRESENTATIVE OFFICE IN THE UNITED STATES

Arab African International Bank

John J. Hoey

New York Representative



Brazil concludes new oil supply deal with Iran

BY DIANA SMITH IN RIO DE JANEIRO

THE NATIONAL Iranian Oil stocks, the financial strain of With this extra onus, Company (NIOC) will ship over the general OPEC increases will Brazil's hopes of achieving a this month.

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is hereby need i. 370ರೆs ಕರ್ನೇ

The consignment is part of a NIOC for supplies of 200,000 the gross imported crude bill to stuff exports and require higher Korea from May 7 to 11. barrels a day until the end of close on \$5bn in 1979. This is the first time that this year. Last year, Petrobras imported 150,000 b/d from the NIOC, then Brazil's third largest foreign supplier of crude.

The political crisis in Iran placed severe strains on Brazil's SIG. GIORGIO MAZZANTI, the senior officials at Pemex, the had arranged the mission to oil stocks which, by early March, new president of ENI, the Mexican state oil corporation demonstrate that British indus-were down to 40 days' forward. Italian state hydrocarbons Only last week Pemex release try was interested "at the supplies. Thus, a new agreement agency, is currently on a trip new estimates suggesting the with NIOC was of the utmost to Mexico to sound out the the country's potential reserve

oil supplies from Iran, Petrobras had a relatively strong bargain-ing point—it had never used intermediaries in its trading with Iran and always dealt directly with the NIOC.

This point appears to have been appreciated by the NIOC Iraq and Iran since he took over since not only did it agree to as head of the group two months resume and, in fact, increase oil shipments to Brazil but, after last week's OPEC meetings, last week's OPEC meetings of the aims of his trip will be Irani officials hinted that Brazil to explore whether scope exists would be one of the few coun- for contracting for oil imports

While the deal with Iran has of Mexico's energy industry. eased the strain on Brazil's Sig. Mazzanti will be seeing elections here.

BY K. K. SHARMA IN NEW DELHI

engines a year have been for-

mulated by India's Ministry of

Industry which is now in the.

process of restructuring the

The plans, which will now go

to the Cabinet, envisage the import of foreign technology for the manufacture of engines

to the car companies which cur-

rently produce three obsolete

Mr. George Fernandes, Minis-

models that are nearly 20 years

4m barrels of oil to Brazil early do nothing to help an already- trade surplus this year appear overburdened imports bill, to be dashed, since the extra A TEAM of 15 leading British Seoul from May 21 to 26. More about its failure to interevene Petrobras calculates that the in- cost of oil goes hand in hand industrialists, led by Sir than 50 companies will be par- in a ship boycott incident revised contract between Brazil's creases will add a net \$250m to with a series of agricultural Kenneth Keith, chairman of oil monopoly, Petrobras, and this year's oil imports, bringing disasters that will cut into food. Rolls-Royce, is to visit South this year's oil imports, bringing disasters that will cut into food. Rolls-Royce, is to visit South soring a further 15 trade mis-

ENI visit to Mexico

BY RUPERT CORNWELL IN ROME

agency, is currently on a trip new estimates suggesting tha while several industrialised and supplies from what is the current proven level of 41b nations faced the risk of losing shortly expected to become one barrels. of the world's leading oil export-

ing nations.
The trip of Sig. Mazzanti, who is accompanied by Sig. Enzo Barbaglia, president of the group's refuing offshoot AGIP, follows similar visits to Libya, as head of the group two months

It was reported here that one tries allowed to purchase in exchange for supplies of Iranian oil at less than \$15 a Italian know-how and equip-barrel. ment to speed the development

£200m Indian engines plant

PLANS FOR a major plant posal is now being examined by technology. The plan enving costing Rs 3 bn (about £200m) a Janata Party Committee and the export of 40,000 en in capable of producing 100,000 car will then be processed by the envines a year have been for Government.

East Asia and the Middle last

The present plan for making

100,000 engines in the public sector is thought to be part of

the restructuring of the industry which will also involve plants

making commercial vehicles. These include Ashok Leyland,

which plans to import new

technology from its principals

and Locomotive Company (Telco), Mahindra and Mahindra (producers of jeeps) and others.

The form of the restructuring has still to be decided by the

which could then be farmed out in Britain, Tata Engineering

ter of Industry, recently sought Ministry of Industry which is to nationalise the motor industry on the grounds that it has engines for all units, hence the made no technological effort to proposal that the public sector suprove its products. His pro- plant be based on section

and

nations most dependent on il

imports, hadly needs to ensue

both secure supplies and ada-

tional outlets for its export increases are estimated to ad a further L1,000bn (£580m) of its annual oil bill, and also gre further push to inflatin There is again renewed speu lation in Italy about an incress in fuel prices (including petrl) and/or direct measures to cu energy consumption. Howee the likelihood of early genea

ject have been held mainly w

and Citroen but proposals fr

others are being sought left

But plans to attract for

a base for export to develop

countries are not makin.

gress, even though labour

are cheap here and thee

already several plants ratio

components for foreign de

panies which have been irrolled

in discussions feel that osts in

India would still be to high

for the proposed plants to be

competitive with Japanes car

collaboration for using Initials

a final decision is taken.

French companies like Peigot

Leading British industrialists to visit S. Korea

BY MARGARET HUGHES

This is the first time that such year, a high level mission from Bri and reflects the growing importance of this country as an export market. The British Overseas Trade Board said it highest level" in developing trade and industrial co-operation with South Korea.

During the five - day visit. Association an all-British pliers, machine tools exhibition in S. Korea Survey, Pages 15 to 26

ticipating. The BOTB is sponsions to South Korea later this

Britain increased its exports Britain has visited South Korea to South Korea by 70 per cent i tion demanding the release to £130m. Despite this success. Britain's share of the market decreased from 1.4 per cent in 1977 to 1.25 per cent in 1978 (first nine months). It is faced with fierce competition not only from the traditional suppliers-Japan and the U.S .- but from West Germany and France.

The Department of Trade is anxious that British companies mission members representing do not lose out in this important Group, Hawker Siddeley. Hill samuel, ICI. Lazards, NEI, and RTZ will have meetings with Government ministers and sourcement serious businesses. The ROTE South Korean Government is senior businessmen. The BOTB South Korean Government is is also arranging in conjunction auxious to decrease its depenwith the Machine Tool Trades dence on its traditional sup-

Danes choose Olivetti

THE DANISH savings banks manufacturer, which is half have announced that they will buy about 1,500 computer terminals from Olivetti. The terminals are for delivery in 1981-83. The contract will be worth at least Nkr 250m (about

The decision by the Danish savings banks is a blow to the in lopes of Datasaab, the Swedish

state owned. The Nordic savings banks jointly bought the first generation of terminals from Datasaab.

The Danish savings banks however have decided to invest in the second generation some years ahead of savings banks Norway, Finland

World Economic Indicators

		UNEMPLO	YMENT			
		Mar. '79	Feb. 79	Jan. '79	Mar. '78	SI
UK	000s	1,350.4	1,362.6	7,339,2	7,400.0	P
		5.7	5.7	5.6	5.9	a
		Feb. '79	Jan. '79	Dec. 78	Feb. 78	a
W. Germany	000s	1,134.0	7,171.4	7.006.7	1,224,3	O
	•	5.0	5.1	4.4	5.4	d
U.S.	2000	5,881.0	5.883.0	6,012,0	6,090.0	ii
	9.	5.7	5.8	5.9	6.1	Ÿ
Holland	000s	271.7	211.5	210.5	202.7	•
	•4	5.7	5.3	5.2	5.1	
		jan. '79	Dec. 78	Nov. '78	Jan. '78	0
Japan	090s	1,270.0	1,160.0	1,160.0	1,260,0	2
	0/	2.06	2.20	2.31	2.08	0
Belgium	000s	303.1 ⁻	300. 9	297.1	299.5	r
_	9/	7.6	7.5	7.5	7.5	u
France	000s	1,356.2	1,256.4	1,215.3	1,027.7	S
	%	5.9	5.5	5,3	4.7	to
		Oct. 78	july '78	Apr. '78	Oct. 77	ü
Italy	000s	1,651.0	1,658.0	1,450.0	1,59B.0	щ
-	%	7.5	.7.5	7.2	8.0	

Liberians attack France over ship boycott incident

BY IAN HARGREAVES

LIBERIA has protested strongly, food and water. to the French Government in a ship boycott incident reminiscent of the Globtik Venus affair two years ago.

According to the Liberians, the French police refused to implement a High Court injunc-Boulogne Harbour of a vessel flying the country's flag.

So far, the French Government has not responded to the Liberian request for an explanation of the incident. The trouble began at the end was simply trying to effect a of February when, following change of crew in order to get

contacts between the ship's the ship out of port. Indian crew and representatives of the International Transport Workers Federation (ITF), the seamen came out on strike for ITF pay levels.

Backed by ITF officials, they blockaded the Greek-owned 8.530 grt freighter the Global 8.530 grt freighter the Global and ITF pay levels during their Med, and at one stage locked period of nine months' service. the captain and senior officers in a cabin, allegedly without ated to India, at the owner's sive.

Freight Transport Corporation, be employed at ITF rates. The refused to negotiate with the mutineers, and visits 10 Boulogne by Mr. George Cooper, Liberia's deputy maritime commissioner, a senior example of Liberia's legitimate Indian union official and an rights being ignored by the Indian diplomat from London

failed to resolve the matter. A week ago, the ITF says the owner tried to storm the ship. Tear gas was used by police and one union official was injured. Mr. Cooper says the owner

On Friday, the shipowner's agent agreed to negotiate with

the ITF says, undertaken to provide back pay totalling \$116.126 to cover the difference between the 32 members' contract rate The crew was to be repatri-

ernense over the weekend and The owner. Trans-Orient a new crew will, says the ITF, ship is expected to sail from Boulogne this week.

Mr. Cooper said his Government was angry at another rights being ignored by the French authorities. France is known for its extremely hard line against flag of convenience shipping operations.

The owners' agent vesterday could not confirm the pre-strike ings, but the ITF said that basic wage was around £50 per month, with an effective rate of

about twice this amount. In the past few months, the ITF in Boulogne and has, Liberia has been engaged in a vigorous diplomatic campaign to safeguard the position of its fleet—the largest in the world—against ITF attacks.

The ITF has said that it will step up the attacks, partly to counter this diplomatic offen-

SHIPPING REPORT

OPEC rises dampen tanker rates

BY OUR SHIPPING CORRESPONDENT

LAST WEEK'S OPEC price months is that they are suc- of inquiry for period charters increases had a predictably ceeding to a surprising extent, to counterbalance the effect of dampening effect on the oil tanker market, especially in the Gulf.

The Harley Mullion weekly index dropped sharply from worldscale 158 to WS148 and in all the major loading areas except West Africa there was an excess of tonnage compared with available cargoes.

Because of the availability of some cargoes at the old oil prices, some shipowners were ble to obtain contracts at well above the going rate, but the overall tone of the markets was difficulty in obtaining details of dull. The rate for a VLCC loading in the Gulf was down to WS32 by the end of last week. charterers.

But with OPEC price-fixing out of the way, tanker brokers are predicting a steadier level of demand for vessels, although rates will continue to depend upon the ability of owners to chedule ship movements so as to avoid long queues of ships n particular areas.

The evidence of the last six

with the help of their Oslobased association Intertanko, in achieving just that. Another sign of an under-

lying improvement in the taken a 5-year charter on a 262,000 dwt vessel at \$1.525. An even larger Danish ship of 332,000 dwt was fixed for one year at WS32.5, indicating an expectation of slightly improving markets.

In dry cargo trades, the best indication of buoyancy is the charters because of secrecy clauses insisted upon by the

There have been especially sharp improvements in grain business out of Argentina, where rates for a 30,000 dwt allowing for higher marine fuel

There is also a strong level each to Far East buyers.

volatility in tanker markets, which normally have a marked effect on the rates obtainable by larger bulk carriers.

The most important long-term market was the report last week indicator of all in shipping, the that a Swedish operator has value of second-hand vessels. The London-based Faros Ship-

ping company, for example, was able to conclude the sale of the 66,000 dwt bulk carrier Agememnon, built in 1968, at \$6.15m. The same ship was available at \$5.8m a month ago.

Likewise in tankers, a small 19.000 dwt vessel built 18 years ago found a lot of bidders and went for \$2m, which broker Galbraith Wrightson says is \$0.5m more than the same vessel would have been valued at six months ago.

The sales lists do, however, ship on the Far East voyage is The sales lists do, however, more than 30 per cent better continue to indicate the than rates paid in January. This diminishing fortunes of P & O. represents a useful gain, even Britain's biggest shipping company, which last week sold three 12-year-old cargo liners for \$2m

6.00 p.m.

A group of dancing girls can give Flotex more punishment in five minutes than office staff give it in months.

Alphonso cooked up coo au vin and fried potatoes to try on Flotex: That's the treatment it gets in restaurants.

Paddy O'Malley and his roadroller giving Flotex the same kind of treatment it has to stand up to in warehouses.

Jim thought oil would never come off Flotex. Car showroom owners could put him right.

These chaps came off the pitch onto Flotex. That's like scores of customers coming off a wet street into a shop.

6.37p.m.

Mrs. Wilkinson, cleaner, had no trouble getting the Flotex back into spotless condition with her contract cleaning equipment in just half an hour.

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Reactor turbine system 'chosen'

A REPORT by the Central Policy Review Staff on the choice of turbine for the advanced gas-cooled reactor nuclear power stations at Heysham and Torness is thought to be completed, and to have come down in favour of the six-exhaust" system.

The review staff appointed by the Prime Minister to look at the choice of systems last year, largely at the instigation of the General Electric Company (GEC), one of the two UK turbine manufac

The six-exhaust system is the preferred choice of both the Central Electricity Generating Board, which will build Heysham, and the South of Scotland Electricity Board, which will build Torness. Both have said so strongly to the Review Staff in their evidence.

However, it is not so clear which manufacturer will profit from the decision. Both GEC and Northern Engineering Industries make four-exhaust and six-exhaust systems, and both have been asked to submit

Technical

Northern Engineering has claimed that it has a superior six-exhaust technology, and believes it would be the favoured supplier for all four sets for the two stations. The sets are worth about £140m.

GEC has consistently refused to comment on the issue, saying the argument is a highly tech-

While the Generating Board has made it clear to the Review Staff that it prefers six-exhaust technology, it has not ,so far as is known, made it clear which manufacturer it prefers. How-ever, its general wish to see rationalisation in the industry with the Parsons turbine division of Northern Engineering merging with GEC, and the Clarke Chapman boiler-making division merging with Babcock and Wilcox-may influence its

Informal talks between Babcock and Northern Engineering-Clarke Chapman have continued even after a formal breakdown of discussions last year, though no agreement yet seems to have

More oppose mining complex

BY JOHN LLOYD

OPPOSITION TO the National Coal Board's plans to develop a 10m tonne a year mining complex in the Vale of Belvoir in Leicestershire grew over the weekend as antidevelopment groups appealed to Nottinghamshire and Lincolnshire county councils to join Leicestershire in

opposing the NCB's plans. Mr. Chris Tizzard of the Vale of Belvoir Protection Group said: "We are delighted with Leicestershire's firm and uncompromising statement to use all possible resources to oppose the NCB. We would now hope that neighbouring

county and district councils Nottinghamshire Lincolnshire will feel free to take similar action."

Last week, Leicestershire council adopted its chief planning officer's recommendation that the Belvoir pits should he opposed both because the the NCB had not proved a need for the coal, and because the costs to be borne by the council, for the provision of extra houses, roads, educational and social facilities, would be high.

anti - development groups have now collected about £52,000 for their defence

fund, to defray the costs of the inquiry to be held later this year. They have retained the services of hir. Gerald Manners, a reader in Geography at London University who has developed a case against the NCB's general development plan, Plan for Coal, and will also hire mining consultants and geologists.

The NCB thus faces the local groups, the National Farmers Union and Leicestershire County Council, with the possibility of other county councils and other environmental groups declaring their opposition as well.

However, the board believes that recent events-including the crisis in fran, the rise in the eil price and increased fears over nuclear safety-will sway public opinion its way.

It also believes that without new, highly mechanised col liery developments like Belvoir, and Selby in Yorkshire. it will be unable to approach its production target of 170m tonnes a year by the end of the century, and, therefore, be unable to supply oil from coal and substitute natural gas as natural oil and gas supplies run out.

'Rising pound a threat to exports'

BY PETER RIDDELL ECONOMICS CORRESPONDENT

THE HIGH current value of trial contract prices are slow to bright future for many of these investment, there may be a sterling is Britain's biggest economic problem at present, according to a major new forecast from a group of Cambridge

In the short-term, there should be a neutral budget, whatever the political circumstances, because apart from oil output, the economy is moving into a mild recession and a tough budget would only make it

These projections come from the Cambridge Econometries developed by the Cambridge Growth Project, a university team under the direction of Professor Sir Richard Stone and Dr. Terry Barker.

The model differs from many others because it is idesigned to project the development of 40 individual industries and the economy over a period of 10

The Growth Project team is separate from what is known as the New Cambridge School under Mr. Wynne Godley at the Department of Applied Department of Applied Economics. Where they favour depreciation of the pound as one response to Britain's economic problems, Mr. Godley's team has called for import

The Cambridge Econometrics ong-term forecasts show long-term measured optimism " provided the pound does not remain as high as it is today. "A strong pound would hit export competitiveness and, in the mid-1980s, turn potential trade surpluses of £2bn into deficits."
However, it is argued that the

react to currency changes and actual buying behaviour changes

more slowly than the contracts, The effects of an over-valued currency can still be felt six years later," the group warns, and among the industries which would be worst affected are steel, paper and board, electrical and instrument engineering, vehicles, glass, chemicals and

The basic forecast projects a excluding North Sea output and

managed depreciation sterling.

Most sectors are expected to prices, is expected to grow by 0.8 per cent this year following

decline of 0.7 per cent, reflecting stock reductions.

growth of total output is expected to range between 1.7 faster in the 1980s than they and 2.3 per cent year, mostly have through the last decade.

Total output, as measured by
Gross Domestic Product at 1975

expansion of real consumer spending.

Cambridge Econometrics. PO Box 114, 21, St. Andrew's Street, Cambridge CB2 3RW.

Public spending reviews urged

BY OUR ECONOMICS CORRESPONDENT

OVERALL REVIEWS of public sible to that desired. spending should be undertaken. perhaps every four to six research body, commissioned a months, in order to assess the study on the management of effects of cash limits on previous expenditure decisions. Marshall of the University of

This is urged—in a pamphlet today from the Policy Studies Sheffield. Institute—with a view to using they at what limited freedom of action reviews v exists during a financial year to ensure that the resulting spend-ing pattern is as near as pos-of expenditure in real terms.

The institute, an independent public expenditure from Mr. Peter Else and Mr. Geoffrey

They argue that these regular reviews would allow account to be taken of priorities and the

price movements are more favourable than anticipated, it would be desirable and feasible to allow a rise in expenditure in real terms. These reviews should be published The Management of Public

and whether, in cases where

Expenditure" by Peter Else and Geoffrey Marshall, price £3.50 from Policy Studies Institute, Castle Lane, London

Stockbrokers show wary optimism

BY OUR ECONOMICS CORRESPONDENT

LARGE new batch of pre-Budget circulars from City stockbrokers shows that most are cautiously optimistic about mandatory prospects in 1979-80.

In the first issue of a new "spread of the so-called Dutch quarterly publication entitled disease is slow, because indus-Financial Analysis, L. Messel

argues that, assuming £9bn Lending Rate in single figures public sector borrowing in 1979-80, the growth of sterling M3, the broadly defined money supply, should be 7 per cent. against 9 to 10 per cent in 1978-79.

On that basis, interest rates should fall, with Minimum and Elbn this year.

within 12 months, while sterling should remain firm. In their latest monthly fore-

cast, Phillips and Drew suggest that the current account should be in surplus by between £500m

COMPANY NOTICES



BARLOW RAND LIMITED

DECLARATION OF PREFERRED ORDINARY DIVIDEND NO. 2 DECLARATION OF PREFERRED ORDINARY DIVIDEND NO. 2

NOTICE IS HERSBY GIVEN that preferred ordinary dividend No. 2 of 18 cents per preferred ordinary share has been declared, payable in the common of the Republic of South Airles, to herders of arterned ordinary shares registered as such at the close of business on 20 April. 1979. Dividend warrants will be posted to those holders entitled thereto on or about 12 June. For the purpose of determining those holders to whom the dividend will be paid, the transfer books and registers of holders of preferred ordinary shares in South Airles and the United hingdom will be closed from 21 to 27 April. 1978, both days inclusive.

The rate of exchange at which the dividend will be converted into United Kingdom currency for the payment from the other of the United Kingdom currency for the payment from the other of the United Kingdom Airles and the United Kingdom ruling on the Airl tusiness day water 1979.

In terms of the South Airles Income Tax Act. 1982, as amended, a income of the Interms. 25 May, 1979.

In torms of the South African income Tax Act, 1962, as amended, a non-resident sharcholders' tax has been imposed on dividends payable to: (a) Persons other than companies, not ordinarily resident toor carrying on business in South Africa, and (b) Companies which are not South Africa companies. In Company will actordingly deduct the tax, at an effective rate of 13.49775 per cont, from dividends payable to sharcholders whose addresses in the registers are outside the Republic of South Africa. shareholders with Africa.
By Order of the Soard
W. C. WARRINER

Barlow Park, Katherine Street, Sandton 2196, South Africa IP Q, Box 78-2248, Sandton 2146, South Africa). Transfer Secretaries:
Rang Registrars Limited,
Znd Floor, Devershire House,
49 Jerissen Street,
Braamientein 2001, South Africa
(P.O. Sec. 31719, Braamientein 2017, South Africa). United Kingdom Registrari Lioyds Bank Limited. Registrar's Dapartment, The Causewa Goring-by-Sea. Worthing. West Sussex BN12 6DA. England.

U.S. \$25,000,000 BEARER DEPOSITARY RECEIPTS Representing interests in a FLOATING RATE CERTIFICATE OF **DEPOSIT DUE 1983**

NOTICE OF RATE OF INTEREST

BANCO UNION, C.A.

(A Venezuelan Corporation)

In accordance with the provisions of the Indenture of Trust and Deposit Agreement between Banco Union, C.A., and Citibank, N.A. Trustee and Depositary, dated as of April 1, 1978, notice is hereby given that the rate of interest has been fixed at 11 1/16th% p.a., and that the interest payable on the relevant interest payment date, October 1, 1979, against Coupon No. 3 to the Bearer Depositary Receipt will be U.S.\$ 56.23 and has been computed on the actual number of days elapsed (183) divided by 360.

April 2: 1979 By: Citibank, N.A., London Reference Agent

CITIBAN(O

NEGIT S.A. Societe Anonyme 10A. Boulevard Royal LUXEMBOURG

Notice is hereby given that, pursuant to a resolution of the Annual General Mesting of Shareholders of NEGIT S.A. on 10th April, 1979, payment of USS 0.11 par share will be made to shoreholders registered on 13th March, 1979.

Dividend chaques will be mailed to receive

Luxembourg, 19th Marsh, 1979 The Paying Agent Banque de Parie et des Peve-Ras pour le Grand-Duché de Luxembourg

COMMERZBANK AKTIENGESELLSCHAFT Units of EM,10

Units of EM.10

NOTICE IS MERCEY GIVEN by S. G. Warburg & Co. Ltd., as Depositary that holders of the howe Certificates agentlement of the howe Certificates are the second of the howe Certificates are the second of the second

2nd April 1979.

SOCIETE MATIONALE INDUSTRIÈLLE AEROSPATIALE 10% 1975-1985 FF.160,000,000 Pursuant to the terms and conditions of the loan, Bends for a nominal amount of FF.15.000.000 have been drawn for resemblar in the presence of a Notary Public on March 19, 1979

The following Bends will be re-imbursed and are valled on or offer-flay 6, 1930 and collowing americal incl. P024 to 5523 incl.

Amount subtractions: FF.53.600.000.

TREFORETBANK S.A. Luxembourgeoide Luxembourg.

April 2, 1979. BANK LEUMI LE-ISRAEL E.M.

(incorporated in israely TO THE HOLDERS OF ORDINARY STOCK

MOTICE IS HEREBY GIVEN that an KINACHDINARY GENERAL MERTING the Bank will be held at its Registered ince, 24-32 years hasery Street 7d in. on Wednesday, 22n April 1979 at 1.18 a.m. for the purpose of considering d. If naugh fit, passing the following solutions as Special Resolutions:

Mesolutions as Spacial Resolutions:

(A) THAT a sum of 11.73.72.149 out of the Share Premium Account and a sum of 11.185.451.655 out of Earned Surface of 11.185.451.655 out of Earned Surface of the Share Premium Account and a sum of 11.185.451.655 out of Earned Surface of the Shares of the Proposed Distribution of Canitahasation Shares.

(B) Year time cyal of 11.282.2513.808 there-are for the Proposed Distribution of Canitahasation Shares together with the Special Sum (as demand below) the same statement of the shares of the Proposed Distribution of Canitahasation Shares together with the Special Sum (as demand below) the same statement of the Canitahasation Shares and of Ordinary Stock whose names appear on the Register of Members at the close of business on 6th May 1975 thereinglifer "the Record Date"; and That the Directors no and hereby are the Directors of Special Som to the sand Molders of Special Som to the sand Som of It.282.813.80d and the Special Som of It.282.813.80d and Study Bod of

All the sharet to be allotted as alo said shall excite their rolects to particle; in all dividends declared in respect of 19 and all suppoduent dust not previous thancal personnent. By Order of the Board 4 SULLAM, Adv. Secretary

April, 1979.

BANK LEUMI LE-ISRAEL S.M. LDERS OF ORDINARY

NOTICE IS HEREBY GIVEN that the Twenty-eighth Annual General Meeting of the Company will be held at the Ret steel of Office. 24-32 Yeluda Halery Street. Tell Aviv. on Westnesdow, the 25th day of April 1979, at 10 30 o'clock in the Jerenson, for the Surence of: surpose of:
Receving and considering the Accounts and Reports of the Directors and Auditors for the year ending 37st Declaring a final dividend for the year 1978; Electing Directors and approxing the promite of their less;
Electing Auditors and halog their remunder auditors.

Electing Auditors and haing time. remulocation.

A creation entitled to amend and rote out the factor may arount a group to herd and vote on his behalf. Such order and vote on his behalf. Such order of the Combany.

By Order of the Sound,

A SULLAM, Adv. Secretary.

NOTICE IS HEREBY GIVEN -nat the Register of Members of the Ordinary Stock will be closed from the 7th to the 13th May 1979, both days inclusive.

A. SULLAM Adv. Secretary.
24-32 Yehuda halvy Street.
1arael.

Luxembourg. April 2., 1979.

THE "SHELL" TRANSPORT AND NOTICE TO ORDINARY SHAREHOLDERS

NOTICE IS HEREBY GIVEN that a balance will be struck at the close of business on Thursday, 12th April, 1679 for the preparation of rendusceable share certificates relating to the proposed issue of Ordinary shares above memicaned. Subject to the necessary resolution being passed at an Extraordinary General Meeting of the Company to be held on Thursday, 17th May, 1579, renduscable share certificates will be possed on Friday, 1st June, 1979.

Share Warrants to Bearer The Coupon to be presented No. 159 and full instructions to the ci Share Warrants to Bearer will lished in "The Financial Times." a 13th May, 1979.

By Order of the Board.

BOND DRAWING

61% 1968/1980-UA.10,000,000 On March 20, 1979 Bonds for the amount of UA 1,094,000 have been drawn for retentation in the presence of a Notary Fublic.

The Bonds will be re integred, country on 12 stacked, on and after May 26, 1979.

The drawn dependence are those, NOT YET PREVIOUSLY RECEEMED, included in the range beginning at The gone will be re-inquiste.

26, 1979.

The drawn dependences are those, NOT YET PREVIOUSLY RECEEMED, led in the range beginning at 1588-sp to 7912 incl.

Amount subject to re-icension. UA 1,300,000 Amount bought in the market. UA 206,003

Amount unamortised. UA 1,500,000 1018 and 1019 1047 and 1048 1115 to 1118 incl 1171 to 1266 incl, 1321 to 1329 incl, 1451 1043 1063 1765 to 1249 incl. 1246 to 1249 incl. 1273 and 1321 1371 and 1392 1479 and 1392 1611 and 1612 1918 to 1893

THE COPENHAGEN COUNTY AUTHORITY (C.C.A.)

1313 to 1317 incl. 1331 1474 1475 1475 1475 1475 1876 to 1525 incl. 1930 and 1331 1949 1955 1950 and 1331 1953 1955 1941 1953 and 1954 1944 and 1960 1969 to 1991 loct. 2039 to 2042 incl. 2363 to 2042 incl. 2436 and 2437 2601 to 2604 loct. 2661 to 2664 loct. 2682 to 2692 loct. 2798 2151 to 3156 loct. 5439 and 5440 5858 2008 2336 to 2340 Incl. 2430 2586 to 2388 Incl. 2455 to 2468 Incl. 2527 2668 to 2670 Incl. 2695 2304 to 2817 Incl. 5308 to 5313 Incl. 2677 2791 to 2737 Incl. 3099 to 3062 Incl. KREDIETBANK S.A. LUXOTIBOUTESCH

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Construction output 'likely to stagnate'

expected to stagnate this year, although the economy as a whole will grow the National Council of Building Material uppliers says.

Its latest forecasts suggest hat the outlook for public-sector lousing remains one of the nost gloomy. The level of pprovals for building new pubsector homes is at its lowest r at least 20 years and housg starts may in the next three ers be expected to fall to precedentedly low levels. According to the council,

blic-sector starts will be nited to about 100,000 in the at three years, partly because nour and Conservative-conalled councils are rejuctant to emes and partly because of fresh emphasis on rehabili-

The council sees a better outk for private house building,

ONSTRUCTION OUTPUT is although it emphasises that prospects for the availability of housing finance remain uncertain and it seems unlikely that mortgages will be as readily available as early last year. It

nevertheless expects private house-building to continue roughly at last year's levels. The building material producers do not believe that the boped-for recovery in publicconstruction. generally will materialise, and expect a slight decline in output until 1981.

Private industrial work, running high last year, is expected to continue encouragingly this year, although the material producers point out that orders are falling off and output will do likewise. Private commercial work.

another bright spot for construction last year, is also expected another successful period this year and next, but growth will cease in 1981.

Government housing estimate is 2m short'

WINCIL HOUSE construction local authority projection was mere than a million people on wring lists—yet the Govern-ment is 2m short in its estimate of English families in need of a the or housing repairs, accordto Roof, Shelter's housing e magazine states today

not only is the Governdefinition of the "hard " housing problem ia ted underestimate, but its proctions of investment in the Public Expenditure Paper will leave much of hard core untouched a e from now.

also points out that local enthrity estimates of the housing hortage are twice as high as tose projected by the De-part ent of the Environmentfor lithough the department estimated a surplus of 106,000 house in London by 1982, the

t its lowest since 1945 with a 128,000 shortage. ancy, according to Roof, is that the Government assumes most people who share a home do so willingly, and that there is no housing need for families.

defined as "overcrowded."

The Environment Department had also failed to take into account the fact that many houses are falking into disrepair, said Roof, although about 120,000 houses a year need repairs costing more than a £1,000. Counting housing shortage unsatisfactory dwellings

together, the Government esti-mates that 11m English households are in housing need while Roof puts the figure at more than 3 m. It concludes that the improvement in conditions which took place during the early 1970's will not be con-

London 'must tempt more international companies'

LONIDN'S POSITION as an orities for an incoming Govern-important commercial and ment, suggests abolishing the financial centre in the European Office. Development Permit Community should be the basis system and reducing controls by the lew Covernment and the thorities to encourage offices in London, the London Chamber of Commerce and Injustry says in a policy statement today.

It describes active encouragement of commerce and industry in London as an essential prerequisite if the capital is to play its proper role in Britain's conomi

where is the UK, a fact not always remembered in the past always remembered in the past when attempts to promote other regions at London's expense have led to serious industrial and social difficulties in the capital while doing little to help the rapids.

recovery. Investment in London, it says, often leads to investment else-

on change of use for buildings. It urges encouragement for companies that wish to remain more inernational companies to in London to modernise and

sure that such facilities are made available primarily from the private sector. The chamber repeats its assertion that Government assertion that Government industry areas of London, such as Dock-

lands, to have access on equal

terms to the opportunities enjoved by assisted areas. Its statement also emphasises that if London is to be allowed to realise its full potential, a series of inter-related policies will have to be put into action. The chamber singles out for urgent consideration education, telecommunications, transport, The clamber, in a list of pri- housing, planning and financing.

Production management 'lacks qualified people'

MANUFICTURING industry suffers from a marked lack of well-qualized and ambitious people if production management which is one of the reasons for that decupation's "malaise," says a report published today.

The resort, by the British Institute if Management, adds that some industries are better than others in career development of production management. ment of production managers. Chemical based industries, especially food, drink and especially food, drink and tobacco, themicals and allied products, are ahead of the engineering-based industries.

It is suggested that this may be so because more companies in the pricess industries are science-based and owned outside the UK than in the manufacturing industries.

industries such as metal manu-facture, mechanical engineering, vehicles, aerospace and textiles. "Such career patterns together with lower educational dards and fewer professionaly qualified production managers, are found more in British-owned

aspirations tend to prevail in

the nature of the graduate population do not appear to have changed as quickly as the nature of the graduate population itself has changed."

ing industries.

Traditional career patterns upgrading the production typified by long service in production, limited experience of tures; better education and other functions and modest training; and more research.

Chrysler adds to Alpine and Avenger ranges

car range and two new Avenger models are announced today by Chrysler UK All will be available only in limited numbers.

The new Alpine Sunseeker is based on the Alpine GL 1442cc but has several extras as standard, including a sun roof and tinted glass. The cost is £4.223

Based on the Avenger GL 1600ec model the new Avenger GL 1600, four-door Special saloon and LS 1600 Estate also have special features in their specification. :

The price of the GL 1600 Special saloon is £3,478 and the

than foreign-owned companies." Contemporary manufacturing industry is making increasing technical, economic and social But "attitudes in industry to

The report recommends four

drivers could buy a new family car, goes on the futuristic

Aston Martin Lagonda-push-

ing it up to £37,500.

NEW version of the Alpine . The price of a new Aston Martin has gone up by £4,900. The specialist car manufacturer yesterday announced a 13 per cent increase on three cars in its range.
The £4,900 rise, with which

in late 1978, it had a price tag of £24,500. The first increase added nearly £9,000. But Aston Martin said it did

Increases of £3.000 go on the which now costs \$29.998.45.

Rolls may make Army engines in U.S. By Lynton McLain

ROLLS-ROYCE MOTORS has started talks with the U.S. Teledyne Confinental Motors Corporation about a possible licence agreement to make Rolls-Royce military diesely. engines in the U.S.

The companies have had a manufacturing link for 12 years. Rolls Royce makes Teledyne's small Continental series of light aircraft engines in Britain under

The proposed venture wonds: open the way for sales of Relly engines to the U.S. armed forces for the first time. Manufacture would eventually be concertrated in America. Mr. David Plastow, managings

director of Rolls-Royce Metorss. which makes military engines at Shrewsbury, meets 50 U.S. defence officials and industrials. ists from renewal.

But he is realistic about changes ists from Teledyne tomorrow) of instant success.

He wants the Pentagon is

consider using a Rolls-Royte diesel as the alternative back up engine for the XM-1, the next generation of U.S. tank, which now is designed round a U.S. gas turbine from Avec-Lycoming. But Teledyne, its would-be partner, is also pro-ducing a diesel, its 1360 model. for the XM-1. Lost Iran order

In particular Rolls-Royce wants to find a new use for Hs CV12 military diesel engine. This was designed with funds from the Ministry of Defence for the Shir version of the British Chieftain main battle tank, destined for Iran before the new Islamic Government cancelled the entire order for 350 tanks.

of the tanks have not been made; but Rolls wants to recoup, for the Defence Ministry, the

Defence officials in Britain and Defence officials in Britain and working on the design of the next generation tank, the MBP 80, and there is strong pressue from the U.S. Avco-Lycombs corporation to get its turbulations accepted for this Rolls-Royce wants the MBT80 to be powered by its CR2 engine, and the U.S. campage, is certain to focus attentioned the engine's potential.

the engine's potential.

WELSH INDUSTRY is WELSH INDUSTRY is to receive £5.75m in loans from he European Investment Bank he long-term finance institution of the European Community. Three companies share the

£2.6m for 10 years goes in Tockwool to build a mineral wool factory near Bridgend Glamergan This should creat some 200 jobs.

Blaenau Plastics received 5850,000 over seven years for \$2.000 over \$2.000

various foreign currencies, but each company has obtained cover against exchange rate auctuations.

Winter costs **National Bus** Company £12m

least £8m for engineering repairs, a further £4m in his fares, and disrupted services in many of its 30 subsidiary bus

their problems.

"We did our best to keep all bus and coach services goings"
the Arctic weather and areast striving to provide a complete

200 lose jobs NEARLY 200 employees at the

Baxter's meat pie compatit. Northampton to lose their 1948 Special saloon is £3,478 and the US which costs just less than Brooks Farm Frozen Food als £3,382.

Increases of £3,000 go on the because a subsidiary company by which costs just less than Brooks Farm Frozen Food als £3,382. forced to close.

No tanks were delivered, although about 100 of the original Shir I, fitted with the Rolls engine, were completed by the Royal Ordnance Factory) Leeds. Engines for the rest development funds.

The company will make it final presentation to the Delegation to the Delegation of the Delegation officials will decide finally choice of engine in the the quarter of this year.

expand their facilities. National and local government must enfor Welsh

money to help boost industrial projects.

Tetra Pak Rausing is to get f2.6m for seven years to build a factory at Wrexham processing carton paper for food packs, and will initially provide 50 jobs, with 60 more foreseen. Mgnsha

pew factory at Blaenad Frestining producing plastic components. It should be fullyon stream by 1981, and create

By Janice Madarland

THIS YEAR's weather has left the National Bus Company & legacy of problems—a bill of atmany of its 50 subsidiary companies.

About a third of NBC's 18.600 buses were damaged either of bad weather or accidents during the first three months of the year and today the companies appealed to passengers income venience by this to understand their problems

service," said Mr. Robert Breden NBC's chief executive "Out maintenance staff is working flat out to put things night but cannot be done overnight.

When the car was unveiled

not think the rise would hit sales-presently one a week

Report may suggest further rises for top public servants

BY JOHN ELLIOTT, INDUSTRIAL EDITOR

EXTRA SALARY increases of Rises of about 25 per cent between 5 and 10 per cent may go to the chairmen of nationable recommended for nationalised industries such as coal, make lised industry community who increasing their salaries from contact the community of the community of the community of the community of their salaries from around £27,000 to £33,500 a year. lised industry chairmen and up to about 25 per cent.
The recommendation will be

Ils may

from official pay review bodies covering top salaries, the armed forces, and doctors and dentists. Its objective will be so bring pay rises which were assessed last April into line with subsequent increases in inflation. and in the pay of comparable occupations in the private

Telectric The recommendations will be especially embarrassing for the Government following the industrial unrest among civil servants covered by general pay

It is likely that the review bodies for the armed forces and the dioctors and dentists will be fore the General Election. But the top salaries report may not arrive until later in May.

Yesterday's rises were paid to the chairmen and board members of nationalised industries and other top public and a name below service, armed forces and the judiciary following last year's report of

increasing their salaries from

The recommendation will be Next April these chairmen contained in one of three reports will get £40,000. Following chairmen of the National Enter-prise Board and the British Steel Corporation will have reached £45,000, while the chairmen of smaller bodies such as the Welsh Development Agency and the National Water Council will be on £25,000.

It is these salaries that the Boyle review body will be recommending should be raised so that the people covered do not fall too far below com-parable salaries elsewhere. The last big rise given to the nationalised industry chairmen and board members was in

The Government's official interpretation of a "top salary" was given as £40,000 a year in the Commons on Friday. In a written reply to a parliamen-tary question, Mr. Robert Shel-don, the Treasury Financial Secretary, said that a "typical top salary" was roughly eight times the average national wage. In 1976 the average top

Wool chiefs seek supremo

Financial Times Reporter

A SUPREMO is to be appointed for the Yorkshire-based wool rmal. The lincering effects of

The post, which is being id rail strikes will be advertised at a salary of not e industry for weeks. less than £15,000 a year, is part The impact upon distribution of a re-organisation which the irly this year has been industry hopes will help boost ifficient to rob Sir Charles it in changing trading condi-illiers, chairman of the British

The new supremo, who will ie concern's estimated £350m have the title of director-general effect in 1978-79 might be will be responsible for advising eversed in time to break even on policy and implementing the uring 1978-80.

decisions of a policy board British Steel's hard-pressed which is to be set up. He will nanagement finds its attempts the spokesman for the o drag the business back into dealings with the Governmentheavy losses, being threatened and Common Market officials. from, now, another direction. The changes, expected to he The

production from its new 10,000-

tonnes-a-day blast furnace that

vill start production at Redcar

put into effect later this yearstrategy of concentrating iron are a move to unify thand steelmaking upon the industry's trade associations b fewest possible low-cost coastalmerging them into a networks, to keep costs down and federation or employers' organ profits on sales up, is being sation which will represent th challenged by the coal lobby. interests of over 600 membe. At issue is whether the companies corporation should have

It is felt that the restructu right to import coking coal ing will give the industry from Australia to get the best more powerful body in i production from its new 10,000efforts to prevent further er sion of trade and create climate, for expansion,

Mr. Derek Bradbury, a lea-It is likely to be resolved at ing member of the industri said in Bradford: "Our obje he Cabinet table rather than etween British Steel and the is to strengthen the organi-tion of the industry in line wi National Coal Board, If a abour Government is returned changing economic and comn n May the coal lobby is expercial conditions."

Problems still facing British Steel imports. The Redear furnace is among

the world's biggest, and twice big as anything else in Europe. It involves an investd rail strikes will be felt in ment of £400m, the higgest single capital investment in

iron and steel made in Europe. Its function is to make some the cheapest iron available teel Corporation, of hopes that to any steel company, in turn, that iron, fed to the steel furnaces, will reduce the cost of the corporation's steel and make a big contribution towards improving its competitive position at home and abroad.

British Steel's blast furnace performance does not compare well with those of other steel-

needed to make a tonne of iron compared with 490 kg in West Germany, 450 kg in Holland, and only 430 kg in Japan. The new furnace, with its economies of scale, is intended to redress that imbalance.

The Redear blast furnace will need 2,2m tonnes of coking coal a year. During its planning, a working party was formed incorporation and of the National Coal Board, to decide how the

The Board went ahead with schemes to increase its Northeast coking coal output. To some extent it geological was frustrated obstacle, in

pit development in the North-east and in the Kent coalfield. Two contracts That investment, the Board says, is to meet a demand from

EWS ANALYSIS . ROY HODSON REPORTS ON NATIONAL INDUSTRIES AT LOGGERHEADS

The working party agreed upon the special blend of coking coal needed to run the new

furnace properly. The coal needs a closely defined reactivity in terms of its chemical qualities. It needs the physical strength as coke to take the weight of iron ore above it in the giant furnace.

In both areas the Board and British Steel agreed that they prices offered by the NCB, were moving into new territory which has to deep-mine its coal as far as use of coking coal in Britain is concerned.

The working party decided upon the type of coking coal needed but failed to agree on how it should be supplied. The best blend appeared to be a mix of a quarter of home-produced and three-quarters of imported coal.

At that point, the two nationalised industries agreed to disagree as to how the coking coal for Redcar should be pro-

The National Coal Board said that it could provide enough ing coal to make a suitable blend equal to the mixture of home and foreign coals. British Steel. unimpressed, decided

signed between British Steel and the Australian coal producers. The first is for 300,000 tonnes of medium volatile coking coal each year until 1981. The second is for 250,000 tonnes a year for nine years. The prices are less than £30 a tonne.

The contracts give British Steel some of the best coking coal in the world. The experts do not quarrel on that. Moreover, the Australian prices are £10 a tonne less than the best in difficult conditions.

British Steel maintains that its decision was not influenced by the lower Australian price. It says that it chose the coal on strictly technical grounds as the best raw material to run its new and complicated blast furnace in the most efficient way it

There is much mystique and empirical lore about operating a 10,000-tonnes-a-day blast furnace. It is an operation on a scale never previously attempted in Europe; even in Japan, experience is limited.

British Steel is naturally anxious to reduce the variables as far as possible before the furnace is lit. One area that it can control is the coking coal

contracts have been 25 per cent combination of foreign-to-home coals to the less

efficient 55 per cent/45 per cent formula. But that is as far as it will go. The principal weakness of the NCB case is that the British coalfields are short of the favoured "301" variety of cok-

ing coals, the low and medium volatile variety. The board would like British Steel to take more of the highly volatile coals ("501" variety) that it can supply. British Steel argues that it would be penalis-ing its investment if it uses highsulphur content British coal

with poor coking qualities. British Steel buys about 8.5m tonnes of coking coal annually another 1.8m tonnes of special coking coals to obtain the com-binations it needs. The new contracts with Australia would increase imports to between 2m and 3m tonnes a year.

Coking coal supplies for the Redcar furnace look like being test case. If the board wins the right to supply the furnace from home coals, at the expense inevitably of British Steel iron output levels, it will then have every reason to press further to substitute home coals for the remaining 1.8m tonnes a year of coking coal imports.

LABOUR

End national pay talks. says engineers' chief

BY ALAN PIKE, LABOUR CORRESPONDENT

design at ing national wage negotiations really low level." design at ing national wage negotiations A Bayd, general secretary of the Amalgamated Union of Engin-

eering Workers. Bir Boyd, writing in his union Supply and the same of the supply and the supply are some thought to mile by pessing the Engineering ducting all negotiations on a fugious on company basis.

Cational minimum rates are now negotiated with the EEF now negotiated with the EEF and local negotiations which determine actual earnings fillow. The engineering unions are made by the EEF last month increases of an to 55 per week on basic rates in reply to a claim for up to 530.

Mr. Boyd says in his article hat employers had shown by heir offer that they had no tile to play in our modern fast changing society other than

should have a basic rate of only £65 for a 40-hour, week—the value of the employers offer— must force all of us to ques-

must force all of us to question the usefulness of any more national negotiations in the engineering industry."

Mr. Boyd launches a strong attack on the EER, accusing the employers of peing "oblivious to all that is happening around them, unresponsive to the challenge of change, blind to the wonderful new future which can be for engineering as which can be for engineering as we move further into the electronic and microprocessor age. Both unions and employers in the engineering industry have until now valued the national

addition to minimum pay rates common conditions throughout the industry. The unions now want manual workers' condition of employment harmonised with those of white collar staff and the employers have offered a working party to consider this.

B-A-T Industries on the move...

Today, B:A:T Industries Limited move to new Group Headquarters at Wirdsor House,

Victoria Street, S.W.1 From this new building the management team

New Grow HQ: Windsor House, 50 Victori Street, London SV1H ONL.

Telex 915 95.

Briginshaw defends print union's financial moves

SY NICK GARNETT, LABOUR STAFF

general secretary of the National Society of Operative Printers, Graphical and Media Personnel (Natsopa) issued a slatement yesterday defending financial policy decisions by the union during his leadership.

The union is seeking legal advice on whether to take civil proceedings to recover money proceedings to recover money that might be owed the anion from property deals. Inquiries are also taking place into the operation, of Swiss bank accounts and into companies set up through the union or by officers acting on their own

Lord Briginshaw's statement lays: "All actions taken by officers and staff were in accordance with the known and decided policies and instructions of the executive council and governing council and appropriate ballot votes of the

LORD BRIGHNSHAW, former Logi Briginshaw said that he general secretary of the researed the continuing witch huni" into the union's affairs When I was elected general retary of the society in 1951, the society was actually insolvent as most trade unions are today.

"Natsopa in 1951 was i insipient bankruptcy as a result of inter-war generosities of the society with certain benefits to the membership, Policies and actions initiated with the executive councils of 1951 and subsequent years avoided the development of a bankruptcy situation during those years."

A special audit of the union's accounts has been carried out by Baker Sutton and Co., City accountants. Mr. Owen O'Brien. the present general secretary, said at the weekend that in future the union would present its balance sheets and financial statements in the way suggested

Re-election of Tierney **boosts union moderates**

THE MODERATE leadership of . Britain's sixth largest union, the council election Mr. Ray Scherer Union of Shop Distributive and Atlied Workers, appears to have received a vote of confidence with the announcement yesterday of the re-election of Mr. Syd Flerney, MP, as national

oiHe had an 80,000 majority over his Left-wing challenger Mrs. Audrey Wise, MP.

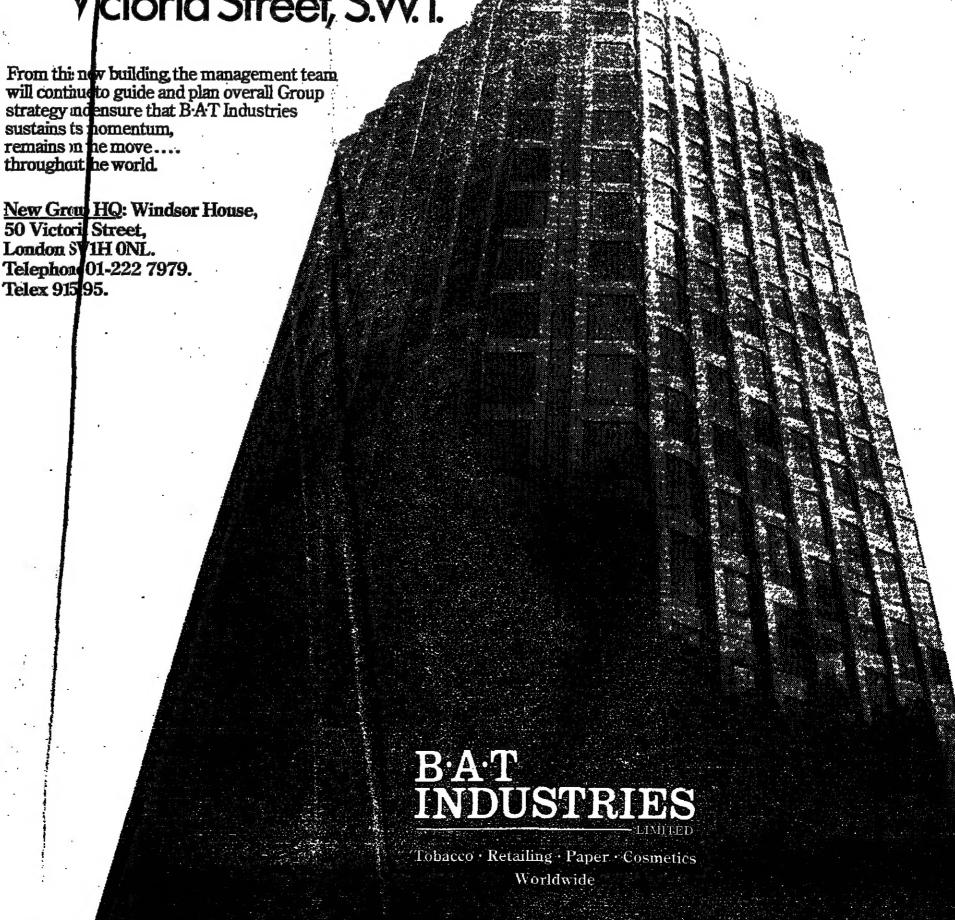
"At the same time the Leftwing caudidate for the general ecretaryship, the election for which is still taking place, has lost his seat as a member of the national executive. He is Mr. John Diks, who was convincingly beaten by his two success-Ru moderate challengers.

In the presidential voting Mr. Pierney MP for Birmingham

of Nottingham, and Mr. Dick Stonehouse of Leicester were elected with 43,000 and 37,000 votes respectively. Mr. Dilks obtained 27,000 votes.

Although Mrs. Wise's defeat means that the union loses its chance of having a woman president for the first time, two additional women were elected to the executive-Mrs. Betty Wardle and Mrs. Loui Woolston -both from Manchester.

The election for genera secretary has been caused by the imminent retirement of Lord Allen, who has led the union for 17 years. The con-test is between Mr. Dilks and Mr. Bill Whatley who is the Parilley, received 188,000 votes union's chief organising officer with Mrs. Wise's and standard bearer of the



GENERAL OUTLOOK

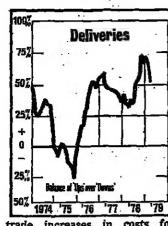
Optimism falls further

outlook for business continued to decline in last month's survey, and this was mirrored by a further drop in confidence over the prospects for the UK economy.

The March survey covered the building and construction sectors, as well as textile and clothing and the food and tobacco groups.

The decline in optimism over the last four months in the building sector was attributed mainly to industrial unrest and the bad weather. However, fears of recession, the world economic position and general uncertainty were cited as

In the textile and clothing prices had an impact—was the



where the rise in oil

main factor contributing to loss of confidence.

One of the main complaints over the prospects for the was that the very unequal level of wage settle ments might lead to further wage inflation, together with further industrial trouble before the end of the current

Export expectations also continued to fall. Companies in the food and tobacco and textile and clothing sectors were more inclined to see exports remain at the same level in the next 12 months, rather than higher as trade increases in costs for they had four months ago-firms dependent on synthetic Building and construction comexpected exports to panies

GENERAL BUSINESS SITUATION

4 n	March 1777					
Dec Mar. %	Nov Feb. %	Oct. Jan. %	Sept Dec. %	Constru tion %	rc- Food & Tobacco %	Textiles & Clothing %
31	31	25	34	9	37	3
35	43	55	51	32	37	36
34	26	70	15	59	26	61
	Dec Mar. % 31	Dec Nov Mar. Feb. % % % 31 31 35 43	Dec Nov Oct. Mar. Feb. Jan. % % % 31 31 25 35 43 55	Mar. Feb. Jan. Dec. % % % % 31 31 25 34 35 55 51	Dec Nov Oct. Mar. Feb. Jan. % Sept Construction Dec. tion % 31 31 25 34 9 35 43 55 51 32	Dec Nov Oct. Sept Construct-Food & Construction Mar. Feb. Jan. Dec. tion Tobacco % % % % % % 31 31 25 34 9 37 35 43 55 51 32 37

C Statistical Materia opyright Taylor Nelson Group Ltd.

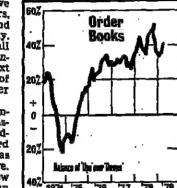
EXPORT PROSPECTS (Weighted by experts) 4 monthly moving								
						Manala 10	70	
	4 n	nonthly r		<u> </u>	-	March 1979 Instruc-Food & Textiles &		
Over the next 12 months exports will be:	Dec Mar. %	Nov Feb.	Jan.	ept Dec. %	tion %	robacco	Clothing	
Higher	61	67	71_	79	46	31	33	
Same	30	22	21	16	14.	69	50	
Lower	9	10	6_	3	38		17	
Don't know		1	2 .	2	2	-	-	

ORDERS AND OUTPUT

Drop in recent deliveries

dropped in all three sectors, the picture on new orders and order books was not so gloomy. However, there was a slight fall in the median expected in-crease in turnover over the next 12 months-from an increase of 7.1 per cent to one of 7.0 per

The main factor in the downturn in deliveries was the transport strike. However, the building sector had also been affected by the bad winter as well as cutbacks in public expenditure. The weighted index for new orders showed no change—an improvement among construc-



tion companies being offset by a downturn in the textile and clothing sector. The survey warns, however, that in view of the pattern of the answers it is quite possible that the index may once again start to fall. Companies in the food and tobacco sector were more inclined to expect order books

to increase and as a result there was a small rise in the index. There has been a slightly greater tendency for companies expect output or sales over the next 12 months to increase by less than 5 per cent. Never-theless, this indicator remained

NEW ORDERS	4 n	nonthly r	noving to		,	Märch 19	79
The trend of new orders in the last	Dec- Mar. %	Nov Feb.	Oct Jan, %		Construction %	c- Food & Tobacco %	Textiles & Clothing
Up	50	49	54	B	35	56	39
Same	14	16	11	1	27		51
Down	15	14	12	•	14	26	8
No answer	21	21	23	E	24	18	2
PRODUCTION/SALES TURNOVER	4 -	nonthly v	navina to	T		March 19	79

PRODUCTION/SALES TURNOVER							
	4 n	nonthly r	noving total	March 1979			
Those expecting production/sales turn- over in the next 12 months to:	Dec- Mar. %	Nov Feb. %	Oct. 1 Jan. 1	t. Constru tion %	tc- Food & Tobacco %	Textiles & Clothing	
Rise over 20%	6	3	4		17		
Rise 15-19%	8	11	10	_		6	
Rise 10-14%	19	15	10	5	21	15	
Rise 5-9%	21	21	23	38	9	24	
About the same	36	31	32	53	53	53	
Fall 5-9%	1	1	_	-			
M. a		70	21	4			

CAPACITY AND STOCKS

Working below plan

ALL THREE sectors were more inclined to say they were work ing at below capacity than the had been in November. Thi meant that the index measuring the extent to which companies were working at planned outpu levels or above—which had been rising—has now dropped

The sharp decline in the leve of expected bought-in supplie in February has come to an end Companies in the building and textile and clothing sectors were less inclined to expect stocks of next 12 months, but food and tobacco companies were more

	Factors Affecti	ng On
l	207 - Indian long angle in section order in section or section order in section or	
	so?	
	807 1974 '75 '76 '77 '76	79

in the index for work-in-pro-While there was a slight fall gress, the other indices, cover- transport dispute.

ing the overall level of stocks and bought-in supplies, inSTOCKS

There was little change in the index covering the level of stocks in relation to current sales trends. While the build-ing and textile and clothing sectors were more inclined to say levels were too high than they had been last November, this was counterbalanced by findings in the food and

There was little change in the pattern of answers covering fac-tors affecting production, although companies were less inclined to mention labour disputes, following the end of the

CAPACITY WORKING

KING	4 n	onthly n	noving to	etal	March 19	79
	Dec Mar. %	Nov Feb.	Oct lan. %			Textiles & Clothing
ove target capacity						

Planned output

	4 monthly moving total					March 19	79
Raw materials and components over the next 12 months will:	Dec. Mar. %	Nov Feb.	Oct Jan. %	Sep De	Construc-Food & Te		
Increase	42	- 36	34	37	27	. 56	18
Stay about the same	42	45	49	46	49	44	53
Decrease	8	7	3	4			29
No comments	8	12	14	13	24		
Manufactured goods over the next 12 months will:				-			
Increase	32	25	25	37	7	74	18
Stay about the same	39	47	43	40	59	17	36
Decrease	8	7	5	6	19		44
No comments .	21	21	27	23	15	9	1

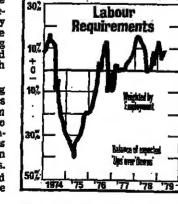
ACTORS	CURRENTLY AFFECTIN					·	Na - 1 20	
			nonthly r				March 19	
		Dec	Nov	Oct.				Textiles &
		Mar. %	Feb.	jan. %	Dec.	tion %	Tobacco %	Clothing
								%
	Home orders	81 ·	79	79_	33	92	98	90 .
	Export orders	60	67	63	i7	49	28	65
	Executive staff	16	19	19	.3	1-		24
	Skilled factory staff	27	27	42	₍₅	1-	26	39
٠	Manual Labour	10	12	12	7	9		15
	Components	3	4	4	6	1-		15
	Raw materials	12	14	9	12	111	18	
-	Production capacity (plant)	11	- 4	4	4	8	37	
	Finance	1	1	ī	1	1-		
	Others	10	7	.9	5	14	18	2
	Labour disputes	. 18	7.6	26	25	14		63

INVESTMENT AND LABOUR

Better job prospects

THERE WAS a slight increase in the index for labour requirements. However, the survey warns that much of the increase derived from the weighting pattern of answers and should be treated with

Companies in the building and textile and clothing sectors were more inclined to mention employment legislation, plans to increase productivity and un-certainty about the future as factors discouraging them from increasing employment levels. Both the building and food and tobacco sectors were more



inclined to say that their capital expenditure would increase over the next 12 months in volume terms. As a result this index, which had been falling, has started to rise.

Weighted by capital expenditure, the balance of companies expecting an increase in investment over the next year over those expecting a decline rose from 38 per cent to 42 per cent.

At the same time all three sectors were more inclined to say they would require outside finance for capital expenditure in the next year than they had

LABOUR	REQUIREMENTS	(Weighted	hy	employm	ent)
	,		4 -		

No answer/no factor

	¶ TI	ronthly r	moving t	otal .		March 19	79	ĺ
Those expecting their labour force over the next 12 months to :	Dec Mar. %	Nov Feb.	Oct Jan. %	Sep			Textiles & Clothing	
increase	26	27	30	32	.11	24	8	l
Stay about the same	57	51	53	43	66	54	74	l
Decrease	17	22	17	25	23	22	18	l

	4 n	nonthly i	March 1979				
Those expecting capital expenditure over the next 12 months to	Dec Mar. %	Nov Feb.	Oct- Jan. %	Sept. Co Dec.	stri ion %	rc- Food & Tobacco %	Textiles & Clothing
Increase in volume	53	46	47	46	56	64	39
Increase in value but not in volume	6	8	8	10			30
Stay about the same	23	23	23	18	28	36	75
Decrease	16	16	14	16	16		16
No comment	2	7	8	10	F		

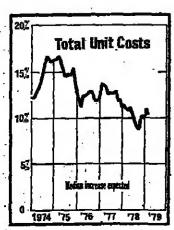
COST AND PROFIT MARGINS

Wages move up

COMPANIES' expectations of figure for unit costs fell from of all public companies, wage costs continued to move 11.1 to 10.4 per cent.

The all-industry figure for unit costs fell from of all public companies. slowly upward, although the reverse pattern seems to be evident for total unit costs.

The median expected increase than previously expected rises for wages over the next year among construction and textile companies more than balanced



moved up from 12.2 to 12.5 per cent between February and March, while the comparable

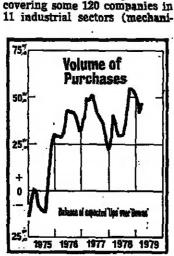
1.1 to 10.4 per cent.

The all-industry figures are
The pattern for expected four-monthly moving totals price changes was similar to covering some 120 companies in that for unit prices, with higher

by forecasts in the tobacco and There was a further drop in the index covering profit mar-gins, with the building and food and tobacco sectors both more likely to say they expected mar-

gins to contract. Among the factors cited as tending to reduce margins were price competition at home and abroad and wage and cost increases, including those of oil.

These surveys, which are carled out for the Financial Times by the Taylor Neison Group, are based upon extensive interviews with top executives. Three sectors and some 30



cal engineering is every second month).

Complete tables can be purchased from Taylor Nelson and

; <u>;</u>	4 n	4 monthly moving total				March 1979		
Those expecting their labour force over the next 12 months to :	Dec Mar. %	Nov Feb.	Oct Jan.	Sep Dec %		re- Food & Tobacco	Textiles & Clothing	
increase	26	27	30	32	.11	24	8	
Stay about the same	57	51	53	43	66	54	74	
Decrease	17	22	17	25	23	77	19	

CAPITAL INVESTMENT (Weighted by expenditure)

COSTS

		4 n						March 1979		
ages rise by :	1 101	Dec- Mar. %	Nov Feb. %	Oct Jan. %	Sept Dec. %	Contion	Tuc- Food & Tobacco	Textiles 8 Textiles %		
	5-9%	14	19	24	24		18	3		
	10-14%	61	55	51	56	7	63	83		
	15-19%	14	11	8	6	75	17	12		
	20-24%	. 1	1	1	_		_			
	No answer ,	10	. 14	16	14		2	2		
nit cost rise by:								-		
	, 04%	1	1	7	7		1			
	5-9%	26	26	35	34		46	6		
	10-14%	46	45	43	43	9		75		
10.	15-19%	10	11	3	1			12		
	20-24%	. —		· _			2 -	3		
	25-29%		_]	2		
	Same	3	3				-			
	Decrease	4		_	2		17.			
							1			

PROFIT MARCING

NOTIL MANGING	4 n	March 1979					
Those expecting profit margins over the next 12 months to:	Dec Mar. %	Nov Feb.	Oct Jan. %	Sept Dec. %	Constr tion %	uc- Food & Tobacco	Textiles & Clothing
Improve	43	40	39	33	49		54
Remain the same	35	47	41	40	12	19	16
Contract	20	12	13	21	35	46	15
No samuel			-				

I.D. & S. RIVLIN **HOLDINGS LIMITED**

Notice is hereby given of the appointment of Lloyds Bank Limited as Registrar.

All documents for registration and correspondence should in future be sent to the address below.

> C.B. RIVLIN Secretary



Lloyds Bank Limited, Registrars Department, Goring-by-Sea. Worthing, West Sussex BN12 6DA. Telephone: Worthing 502541 (STD code 0903)

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 construction industry woodworking machinery
 hospital equipment
- refrigeration
 - telecommunications
- printing machinery transportation
- teaching materials textiles industry

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1st Expo Egypt '79	- Ad
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September, Cairo	
4TH EXPO Africa '79,	📑 Inc
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15-18th Octobe

CONTRACTS AND TENDERS

LEMBAGA LETRIK NEGARA TANAH MELAYU NATIONAL ELECTRICITY BOARD OF THE STATES OF MALAYA

TRENGGANU HYDROELECTRIC PROJECT

CONTRACT NO. 1854/3 TUNNEL LINERS AND PRESSURE PIPELINES

The National Electricity Board invites applications from suitably qualified and experienced contractors wishing to be registered as Tenderers for the Tunnel Liners and Pressure Pipeline Contract for the Trengganu Hydroelectric Project in Trengganu, Malaysia. The work will comprise the fabrication and delivery of approximately. and with plate thickness varying from 14 mm to 25 mm. Approximately 2.430 connes of notch dutille carbon manganese steel plate will be required. Corrosion protection of the liners and pipes will

has obtained a loan from the Overseas Economic Co-operation Fund, Japan to finance the foreign currency portion of this Contract.
Application for registration will be considered from interested contractors of the following countries:

(1) Member Countries of the Organisation for Economic

Co-operation and Development (OECD).

Developing Countries in general subject to individual notification of approval by the National Electricity Board. Formal applications for registration should be submitted not later than 16 May 1979. It is expected that Tender Documents will be issued to Registered Tenderers about August 1979 and that Tenders will be required to be submitted about 3 months thereafter. Full details of the applicant's experience in the fabrication of large diameter steel pipes must be forwarded with their application, together with details of their technical and financial competence, Applications must be accompanied by a Banker's Order or Oraft for \$A250 payable to Snowy Mountains Engineering Corporation 28 a documentation fee. The documentation fee will be refunded only to applicants not issued with Tender Documents.

> Applications must be forwarded to: Project Manager
> Trengganu Hydroelectric Project
> Snowy Mountains Engineering Corporation
> PO Box 356, Cooma North, NSW 2630, Australia

with a copy to: Project Engineer Trengganu Hydroelectric Project National Electricity Board PO Box 1003, Kuala Lumpur, Malaysia

The National Electricity Board is not liable for costs incurred by applicants in preparing applications and will not be liable for costs incurred by Registered Tenderers in preparing Tenders.

WANDSWORTH CORPORATION Installation of Heating at Surrey Lane Estate, S.W.11

Contractors wishing to be considered for selection to tender for the installation of heating to 313 maisonettes at Surrey Lane Estate, Battersea, should submit names to the Director of Administration. The Town Hall, Wands-worth High Street, London, SW18 2PU, by 16th April.

Two contractors are to be appointed, each being responsible for approximately half of the total number of maisonettes to be dealt with.

The work involves the removal of the existing warm air heating units and cupboard and the installation of an independent gas-fired boiler serving radiators in each dwelling. Each contractor will be required to complete all associated builders' and electrical works. It is anticipated that specifications and drawings will be issued to selected contractors in July/August 1979 and that the contract period for each half of the work will be from December 1979 to October 1980.

Applicants must give details of labour, technical and supervisory staff available, together with the names and addresses of two technical and two financial referees. The engineering services for this scheme will be provided by the Council's Director of Development.

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BARALYS

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apple

Over £10m worth for Crovn House Division of Wiltshiers has been awarded contracts worth nearly £500,000.

FORMED TO handle overseas starts in May with completion with interests for the Group, Crown due in a year's time. Engineering International has won contracts in ation International as main the Middle East valued at contractor, plumbing, electrical

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CERRY

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Four contracts in Egypt have will be installed at an office been awarded by the Arab complex. Work on this project Organisation for Industry. With main contractor, John Laing International, in a £4.5m con- next year. tract, the company will supply and electrical work, plumbing, services and cranage, for a factory project at Helwan, Cairo. Cementation International is

month with completion in April A £3m contract at a factory and instal the air-conditioning project at Heliopolis, Cairo, also fire protection, compressed air tion of air-conditioning, plumb-

featued at £780,000) starts next

Also at Helwan, with Cement-

involves the supply and installaing, fire protection and compressed air services.

consulting enginee on its Bank's headquarters at Watkins Hart and Payne, WorlDammam. This £1.7m contract started in February and comple for supplying and installing air- Fellowship of Remembrance, tion is scheduled for September conditioning, electrical, plumb- Young and Purves are the archiing and fire protection services, tects for this project which calls
Hassan Mohammed Allai includes the installation of a for the provision of new bar

and air-conditioning services and Watkins Hart and Pays the consulting engineer on the consulting engineer on the contract for electrical Brown Dallac Association Saudi Arabia. and Partners is the archite contract for electrical, a conditioning and plumbin services. Work on the £2 contract started in January.

Other contracts are a we-

Latter Day Saints (£235,00 ←

architect and quantity survor

In Saudi Arabia, Cros House Engineering Parsons Brown is the consulting main contractor. Vincent Gorb national will work for 1 starts very soon and comple-Int.

Sons of Cairo is main contracte data log system, and conduit facilities, a general amenity on another factory project all tubing, etc., for the security area, decoration of the rooms at Heliopolis. Vincent Gorbin system.

Wiltshiers

THE CANTERBURY Building

Work has started on a

£257,000 extension and renova-

tion of Ledge Point at Westgate

In Queenborough, Kent. Wilt-

shiers is creeting a chemical

production unit for Abbott

Laboratories while in High

Street, Canterbury, work has

begun on a £74,000 refurbishing

iob for the Sussex County

THREE industrial building con-

tracts, together worth about

£1.14m have been won by

Development Agency, involves the £650,000 conversion of a

large factory at Penalita, Mid-

Glamorgan, into 7 small units

and the construction of four new

units, together with associated

roads, sewers and accommoda-

In the same county, the coun-cil has instructed Tilbury to

proceed with an extension to Ysgol Cefn Glas School

a warehouse and vehicle main-

tenance unit at Carno, Powys,

AL MORABA Intersystems of Al Khobar bas signed a contract

with the Riyadh office of Keang

storey dwellings in Riyadh.

constructed on site plant.

by the contractors.

The largest, for the Welsh

on Sea, Kent, for the Post Office

active

heating system.

Building Society.

awards

Tilbury.

tion works.

Industrial

in Kent

architect, with Orsi and Koemer the consulting engineer and Hardy Hobbs and Associates the chartered quantity surveyor -they are all from Rome. Work

Awards to C. Bryant Variety Architects are Harper, Fairy Partnership and quantity reveyors Frances C. Graves defor A. Monk

THREE FACTORY blocks for Bryant is also to erect a house and office block in multi-storey car park for Sheldon, Birmingham, for to Warrington Development Cor-Redditch Development Corpora- Church of Jesus Christ of poration are to be built by A. Monk & Company under a £1.36m contract.

> totalling about 10,200 square metres in area, will vary in height between 5.4 and 6.9 metres to the caves and have in- Bridgend, at a cost approaching tegral office accommodation in £100,000. The third contract is single and two-storey form to worth about £390,000 and is for Contracts worth £964,000 cold store in Wisbech Road, allow for future expansion.

Construction will be generally for Laura Ashley. steel frame on reinforced concrete foundations, with low-level erele foundations, with low-level brick-block cavity walling and Omnia units external coloured metal cladding for Riyadh above. Architects are John Mather & Partners.

In Yorkshire Monk has secured two contracts, one for modernisation of older property, both awarded by the City of Bradford Metropolitan Council.

Total value of them of them to supply of 190,000 square metres of Omnia wide slab units and outcome. Total value of these awards is for a development of 800 single marine oil pipeline at Milford

Monk has also won two other contracts. One is from British Rail Engineering for building an extension to the apprentice training school at Wolverton, Bucks. (£104,552) and the other from Skelmersdale Development Corporation for the construction; an extension to a factory.

Cartwright group busy

awarded to companies in the the Wales and West Housing Joseph Cartwright Group is for Association, estimated to cost Kirklees Metropolitan Council, £780,000. In Bath, work on a and is valued at £2.3m. This returbishment scheme in the involves the building of six city centre will provide 32 flats blocks of two-storey flats, giving in the restored Fountain Builda total of 182 dwellings close to lings under a contract of the railway station in central £340.000 for the Knightstone the railway station in central Dewsbury. Another local authority job, valued at £425,000 local Housing Association. is for 38 new dwellings at Gled-

Council are valued at £600.000. and 26 homes for the Bradford Metropolitan District Council are valued at £150,000.

In the south, the company is commence a project at Crickhowell, near Abergavenny.

LARGEST JOB in a number of Llandough, Cardiff, which will contracts totalling £5.4m provide 64 new dwellings for

The group's civil engineering is for 38 new dwellings at Gled-hill. Dewsbury.

Improvements to 121 houses at Elland for the Calderdale Road Bridge for the Mid Glamorgan County Council. flood prevention work at Siston. for Wessex Water Authority, and construction of a bridge at Port Pentre Bach,

Oil terminal in Ecuador

THE ECUADOR State Petro- built to accommodate tankers up Estatal Petrolera Ecuatoriana) has commissioned Sir William Halcrow & Partners to design and supervise construction of the second stage of an offshore tanker terminal required for the export of petroleum products from its recently constructed refinery at Esmeraldas. Mechanical and electrical engineer-ing services will be provided by Ewbank & Partners.

The first stage development, which provided a temporary facility for the refinery and became operational in November 1977, and for which Halcrow was also responsible, comprised a four-hose sea-bed manifold located four kilometres offshore, in a water depth of 16 metres. The temporary terminal was

leum Corporation (Corporation to 20,000 dwt and needed to be connected to the Esmeraldas refinery, situated some distance inland

> bed manifold by creation of a remain unaltered. During the two-berth sea island terminal period of the 30-month contract capable of accommodating the hospital will continue to vessels up to 50,000 dwt. Confunction.
>
> struction is foreseen of a Work also includes converting tion, the terminal will include dolphins, and an auxiliary services and accommodation platwill be interconnected by steel plete redecoration, rewiring, access bridges, and the replaceaccess bridges.

IN BRIEF

awarded to D. Wilson (Birming-ham) include work for the Kings Lynn. Licensed Victuallers National Homes, Churchwell Housing Society, Church Army Associa-tion and Bromford Housing

 Pipeline insulation sub-contract worth £im has been placed with McGill Insulation Group. Hadleigh, Essex, by Land and Marine Engineering on behalf of Pembroke Cracking Company, for work on a 12-inch diameter, five miles long land and sub-

Al Moraba, licensed Omnia Smith and Partners anmanufacturers in the eastern region of Saudi Arabia, will be nounces two major contracts with Tempco International: commaking the units in a specially prehensive conversion of an Value of the contract to Al existing dry-storage warehouse Moraba is about £1.5m. excludinto a cold-storage chamber at ing materials and unskilled labour which will be supplied Dronfield, six miles from

 New president of the Concrete Beachcroft Concrete Partitions problems of dust and noise. (Phoenix Timber Group). In its annual report the Association says that the block industry

more than in the previous year. ● Ercon (Engineering and NEW FACTORY on a nine-acre Resources Consultants) has been site at Peterborough will be awarded a contract to design built by Wimpey Construction and supervise the construction for Sodastream, the company of an animal feed processing which makes do-it-yourself

met a rising demand in 1978;

total deliveries were over 72m

square metres, about 11 per cent

complex at Ruwi, near Muscat, machines for fizzy soft drinks. Oman, by Oman Flour Mills. A fitting-out contract worth Bovis Construction by Owen Owen. The work is to be carried

Prevision. Project is due to start in June

and involves gutting areas of the 14-storey hospital (built in A recently signed contract for the late 1940s) and rebuilding provision of a permanent and them. Apart from cleaning the larger tanker facility, says Halexternal facing brick and stonecrow, involves replacing the sea- work facade and structure will Work also includes converting

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SPANISH MEMBER company of

the John Laing Group, Laing SA,

has been awarded a £6,2m con-

tract to modernise the Gran

Hospital, Madrid, for the

Spanish Instituto Nacional de

Hospital

in Spain

central loading platform serving four-bed wards into two-bed two alongside berths; in addi- rooms, replacing existing lifts with 15 new ones, including two separate berthing and mooring in newly constructed lift shafts, the transfer of 12 operating theatres into other areas of the building and the construction of form. Main structures will be an additional cobalt therapy of steel piled jacket design and room. Contract also covers comment of heating and ventilation

Dividing the hospital vertically, work will be carried out in overlapping phases. Temporary brick partitions will be built in passages to isolate Block Association is Basil M. the construction areas from the Rayner, managing director of rest of the hospital, eliminating

Factory contract

Contract is worth £2.3m and was announced by the Developabout £2m has been awarded to ment Corporation which is handling the city's expansion scheme. out at the latter's new store due

The brick and steel factory into a cold-storage chamber at to be opened in 1980 in Red- will cover 144,800 square feet Dronfield, six miles from ditch, Worcs. Architects are and will be ready for comple-Sheffield and construction of a Stewart K. Riddick & Partners. tion in the summer of next year.

> Atlas Copco compressed air

systems.

A force made

to serve you

Work at power

WEST COUNTRY subsidiary of the Mowlem Group, E. Thomas and Co., has won a £2m CEGB contract for civil engineering work at Hinkley Point A power station, Bridgwater, Somerset.

Work involves the construction of two three-storey steel framed buildings each containing a heavy reinforced vault for the storage of magnox fuel after its removal from the reactor. Each vault will be about 31.8

foot square, 39.4 foot high, and partly underground. Both buildwill be about 52.5 foot high. Other work includes install-

ing complex mechanical and electrical services and plant. Work is due to start shortly and should be completed in the

Kent hotel extension

EXTENSION OF the Great Danes Hotel at Hollingbourne. Kent, is to be undertaken for Rank Hotels by Sir Robert McAlpine and Sons. Value of another 51 bedrooms in a threesinrey block Work is about to start and is due for completion in early 1980. Architects are tion works for Peter Ednie and Partners and Sovernment. quantity surveyors, the Watkins

ERS Technical News

Identifies the oil

EDITED BY ARTHUR BENNETT AND TED SCHOETERS

A DATA analytical technique In each fase the analyst that could have numerous would need a data bank of applications within the oil information on the oil types

industry has been developed by likely to be present.

a Norwegian scientist reports

The contributors to a developed the technique during composite oil slick, and to establish the proportions of different discontinuations of the present.

The discontinuation of th

lish the proportions of different his spare time without the backoils present in the slick. ing of either hand on exten-

Similarly, it could be used to ernment. It is based on exten-

engineer for the work which ing and Partners the architect, Soudi Arabian Monetary Agen tion should be in January 1981.

A CONTRACT to modernise 250 Street, Birmingham (£233,0) Of lobs houses in Acocks Green, Birmingham, has been awarded by the City of Birmingham Housing Authority to C. Bryant

tion as part of a town centre scheme. This is worth £1.5m. Another award, from Delta
Alan Douglas, and an cce
block in Codsall, Woertwo factories—one at the company's island site in Heath

Selwyn and Co. (£125,00— Street South, Birmingham architect Robert D. Gbs (£462,000), the other in Eyre quantity surveyor A. Reynds.

Industrial buildings

LAUNCHED BY the Atcost also serve as an inherent cu Group of Tunbridge Wells is a tural member. new industrial building design been introduced at the ad system called Accost 80, said to tional gutter level. This pit be particularly suitable for warehouse and factory projects, offering total versatility in design possibilities.

Major feature is the variable gutter location which, when positioned in the elevation, will act as a brick restraint, a lintel hour to four hours over windows or doors, and will

the wide range of court claddings available, say: ti company, enables the acies ment of a high degree of is: acceptance. The columns are said 1

vide from a minimum :

building contractors, HBG, has announced the award of a contract to its dredging division, HAM, for dredging and reclama-HAM, for dredging and reclamation works for the Asia Dhabi dredgers will be mobilled.

Sovernment. Project is due to stat son

ONE OF Holland's largest together with reclamationwo

Dredging in Abu Dhabi

This consists of deepening and will take about 11 nones

channels and a harbour basin to complete.

for four industrial areas. Ab 15m cubic metres of sad a rock have to be removd.

on the fact that ois form different sources have neir wn chemical "fingerprint." Ich oil contains different amonts

of various elements an oranic

compounds. Its compostio can be translated into :or

language and stored o adata bank. Then, by comparing the

composition of a slicker scom-

required answers can be sund.

layman's head, it preduces

on a computer printout which laymen could recomise and

senting a type of ill show

be of value in a cour case where a jury had to le de the liability of different courbutors

Although the theay blind

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would

posite oil delivery with information in the and

the method is far above

evidence in the form of p

Clusters of numbers

print-out (each number

clearly which types are

in a composite slick ard

This visible demon:tr

the scientist's conclusion

accept

proportions.

INSTRUMENTS

Thickness measurement

digital ultrasonic gauge named Audit-80.

Access to only one side of the represents a big advantage over standard micrometers and

sioning. These requirements arise from both current and anticipated legislation governing pro-

to play an important role in materials inspection by steel stockholders and other metals 67671.

ward stage where significant of errors through incorrect in- savings can be made through the rejection of unsuitable material before money is wasted in using it in manufacturing processes Circuit precalibration and encapsulation during manu-

test piece is necessary, which facture ensures correct calibration for use on steel in the standard instrument throughout the life of the instrument during normal use. There are no controls for the operator.

BANKING Even the on/off switch has been

incorporated in the probe so that it operates automatically when the probe is placed on the test surface. In this way operation is simplified to the utmost so that the instrument can be operated with only one hand and battery life between charges is prolonged.

Baugh and Weedon, Widemarsh Street, Hereford (0432)

Atlas Copco

Counts the notes at high speed

SPECIALISING IN the design, development and manufacturing of bank-note processing systems, the Swedish Company Inter Innovation has received orders from Barclays Bank, Chubb Integrated Systems and Datasaab for over 800 cash adapters and dispensers.

The adapter takes over the tedious and time-consuming part counting and delivering money and does it much better It can handle the same number of denominations as a teller and it is able to work with new, used and poor quality notes in any mixture. It does the job fast and reliably, allowing the teller time to give better service to the customer, and it increases bank floor security.

The system delivers to the teller the exact amount of notes required, in one bundle, ready to be handed straight to the ward Road, Kirkby Industrial customer. With microprocessor control the adapter is so fast that it can easily be operated by two tellers simultaneously, dispensing around 15 notes per

over 250 units representing an sible variations that may occur, MULTI-FREQUENCY eddy-cur dependent upon frequency set initial shipment of equipment due perhaps to mains changes. rent test instruments of high ting and type of probe or sensor to support Citibank of New utilised. York, N.Y., teller-terminal F 2.825 has facilities for system which is being installed

Designed for flaw detection systems: it will operate with is a modular mechanism (the MDDM), providing a choice of when smoke in the chamber tivity measurement, coating fixed or rotating probes, scan- note capacity and number of clearance ning probes, etc. of any manu- denominations to the user. Money is stored in tamper-proof Standard 19-inch modular cassettes designed specifically shown by an indicator on the and precise determination of racking enables servicing to be to be simple to handle and

> downwards and lock in position equipment supplier, has made a successful design around the tape recorder outputs and a Operational temperature range MDDM of customer-operated connection for data processing is 0-35 degrees C although units note dispensers and automatic for use at higher temperatures teller machines (ATM). Its Test evaluation is by digital can be supplied to order, it order for 500 units includes volmeter readout of x, y and z weighs 41 kg and physical equipment for the Swedish components and an oscilloscope dimensions are 510 mm wide x nationwide ATM network operated by a consortium of commercial banks, with Philips

> > Inter Innovation, Box 43009.

determine accurately the propor- slope of existing analytical tions of oils delivered from methods, different operators simul-taseously to a common pipeline (provided that the chemical

composition of the oils was

different). ...

O ANALYSIS

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en også en så ett

COMMUNICATIONS Coping with satellite data

INVOLVEMENT in weather andfactured. It provides a con-Post Office Research Centre at experimental programme. recorder.

The centre is investigating the effects of the weather on radio wave propagation. Its experiments, which began on a Quick end full time basis in January, form "part of Europe-wide programme of feasibility studies into the characteristics of satellite comof feasibility studies into the munication networks under varying environmental condi- FOR USE in conjunction with and 60 seconds for personnel to

Object of the experiments is to provide European PTT organisations with the necessary information systems for the introduced extinguishing sys-1980's. Such systems will be tems that can be suited to the used for voice, radio, television precise needs of the customer. and computer data communica-

Extremely high frequency European geostationary satellite installations such as computer signals are being sent up to a bounced back to a dish aerial or electronic equipment which (OTS 2), from which they are at Martlesham and recorded. Signal deterioration due to adverse weather conditions such as heavy rain, snow, thunder, hailstorms, etc. can be a fixed pipe distribution net-significant, and it is one of the work, has a release control main areas of interest, to see, which is connected to a multi-

be reduced. Rapid, sudden fluctuations in detectors. the signals (called scintilla-

satellite communication techtinuous record of these scintilnology by S.E. Laboratories
(EMI) has increased since the
Post Office Research Control Martlesham started using a A more powerful unit (SE portable SE8-4 analogue instru- 7000) is being used by the

particularly

methods, particularly one devised by Dr. F. Wold of Umea

University in Sweden, a world

expert on chemical classifica-

Dr. Christie's method relies

mentation magnetic tape University of Dundee to help Division. 01-890 14-7.

SAFETY AND SECURITY

(83 High Street, Esher, Surrey KT10 9QA, 0372 66348) has

systems are intended primarily for the protection of high value centres, or unattended electrical could present a serious fire hazard if a fault condition developed.

A bank of gas cylinders, with whether the effects of this can zone fire alarm control panel, in turn monitoring smoke or heat

tions) are recorded by the SE charge by a false alarm, two to the gas in question. labs, 84 machine, which is separate detectors have to be audible alarm sounds if the gas

generated from daia received from the NOAA5 weater satel-lite and are recorded con-tinuously by the FE7 00. SE Labs (EMI) ecording

its Helios range of fire alarm clear the area before gas is equipment, Bowcom Electronics released.

Employing carbon dioxide or halon gas extinguishants, the

British designed and manu- triggered and the area to be concentration exceeds a pre-set

produce weather pictures (photofacsimile images of the British Isles. These images are

zone circuits for this purpose. Two stage alarm is also employed: after the second audible alarm has bounded a

Gas alarm

of phosgene, hydrogen cyanide, tion/time profile. nitrogen dioxide and hydrogen sulphide on a personal basis has been introduced by MDA Scientific (UK), Ferndown Industrial Estate, 86, Cobham Road, Wimborne. Dorset BH21 7PQ (0202 872106).

Known as the Monitox perdividual detectors measure only 104 x 62 x 22 mm and weigh only 150 grams; each uses However, to avoid gas dis- an electrochemical cell specific

protected is monitored by two- level, with an earphone for use emitting diode light source in noisy areas.

avoids the problems normally arising when handling toxic gases.

sonal gas alarm system, the in- MAINS operated, the 7292-03 smoke switch from Chloride Gent will give an early response to both smouldering and flaming fires and incorporates verifica-An tion circuits to minimise false

Basic arrangement is a light



This machine is now being marketed by the Addison Tool Company (Westfields Road, Acton, London W3 0RE) for cold-forming metal rods, tubes and sections into rings and spirals. The standard tooling supplied is suitable for strip, angle iron and sections with a basically square or rectangular profile. Alternative tooling for rounds and other shapes not accommodated in the standard tools are said to be

Scope can be extended by the use of an additional dosemeter to compute the time weighted average over working periods up to 12 hours. Microprocessor A COMPREHENSIVE collection controlled, it stores and subseof equipments for the detection quently prints out a concentra-

Sees smoke early on

alarms.

(with a 30-year rated life) and A small battery-operated gas a pair of photocells, one of generator provides a simple which receives light only when and fast functional check of the it is scattered by smoke while detectors (five at a time) before the other monitors the LED they are issued to personnel output to compensate for pos-The "plug-in" arrangement sible variations that may occur, Once the unit has stabilised, the resolution stability and sensi- utilised. typical standby current con- tivity are being introduced by sumption is 35 mA (at 75 Wells-Krantkramer under the matching to all eddy current in New York City this year. description Defectomat F 2.825. differential or absolute probe

The heart of the cash adap degrees C). The smoke switch is factory

> reaches 1.5 per cent obscuration per foot. It latches into an measurement, manual or semi-facture, alarm condition, which is then automatic component testing housing. Re-setting is by eddy-current test parameters. momentary interruption of the the device incorporates two ad-control panels open upwards or mains input. Standard downwards and lock in position Testing is possible without smoke. By applying a magnet at an indicated place a reed

switch can be operated which lights a test LED in the enclosure, in turn illuminating the detection photocell. The device measures 6 ins by 2½ ins deep. More from Temple Road,

(0533

Leicester LE5 4JF

NEW CONCEPTS in thickness suppliers and at the goods inmeasurement eliminate the risk

strument calibration and are incorporated in a pocket-sized thickness

Audit-80 is intended to meet increasing needs throughout manufacturing industries for routine inspection at all stages the production process, especially machining, assembly, test and installation or commis-

duct liability and safety. The instrument is expected

Temperature indicator

DIGITAL temperature indicator range -100 to +200C (platito provide high accuracy tem- num) and ±0.1C within the perature measurement under range -70 to +170C (nickel). any ambient conditions has been introduced by Aughton Instruments, Kirkby. Called the ATI-100 it is avail-

able in four types to suit many industrial and laboratory applications. Temperature display is either 31 digit 0.3 in LED or 0.4 resistance sensors which a constant current of less than 1mA is maintained. Estate, Kirkby, Liverpool L33

The instrument is factory-set to comply with the sensor curve to within a maximum error of 0.05C over the whole calibrated Calibration to National Standards can be effected by substituting the probe for fixed values

of four-wire standards, for in LCD depending on the type. example, 0C=100 ohms, 100C
The indicator has four-wire =138.5 ohms, which also have platinum resistance or nickel calibration certificates. through Aughton Instruments. Wood-

Will detect the flaws

Accuracy is ± 0.1 C within the 7UZ. 051 548 6060.

calibrated to produce an alarm and materials sorting, conduc- standard or special transit coils. thickness and specification includes chart and as required.

> display incorporating an optional storage facility. Test variable from 100 Hz to 1MHz. brook Road, Minworth, Sutton contractor.
>
> Testing speeds are within the Coldfield, West Midlands B76 Inter Inn range 0.2 mm/s up to 100 m/s, SAY (021-351 3151).

instrumentation.

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an 310 mm high x 570 mm deep. Wells-Krautkramer. Castle frequencies are continuously Vale Industrial Estate, May- Data Systems

second. Orders from Datasaab include The heart of the cash adapter

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Speedometer reading 59,000 miles.
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hase in Oxford Blue with Baroda Blue cloth in erior. Supplied and serviced by us. 24,000 miles. 1374 Rolls-Royca Silver Shadow finished in Cardinal Red with Blue interior. 15,000 miles. 1973 Jan. Rolls-Royce Silver Shadow in Special

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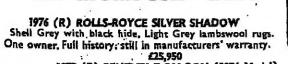
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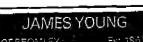
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1979 530 St Choice Silver Green black cloth of rediparchment cloth, Both with any high spec. Del mileage. mileage. 1978 Serves 350 SL. Whitelblue cloth, alloy vicels, dated glass, radioseteres, \$000 miles.

mileage
1979 450 SLC. Blackfarchment
velour. Air cond., alloy wheels,
elect. sun rol. Del. mleage.
1978 450 SLC. Silver green/green
vel. Air cold., elect. strood, alloy
wheels. LS dit., self-tevelling susb.,
craise cond. radio/sterec. etc.
11.000 miles.
1977 75 457 SLC. Light metallic
bluothise volour, elect. sun roof,
alloy wheels stereo radio, ame eo
casserte 12300 miles.
1975 450 SLC. Chales Astrol. cl.
1975 550 SLC. Chales Astrol. cl. caserie 12300 miles. 1975 450 S.C. Chelce Astral silver or silver precin Both with elec. stroat. etc. 14.000 and 25.000 miles resecretely 1978 17 438 S.L. Silver/blue cipen, 19183.7.400 miles.

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Astral siher for Magnetile blue, of con. ele. Sun root. siley whees. radiosters etc. Octivery milesse. \$23,850.

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cen ala locking, radio(stero,
14.00 billes, £11,650.
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Quarterly analysis of bank advances

in UK residents by banks in the UK at February 21, 1979; as Table 4 in the Bank of England Quarterly Bulletin. Telal Seascin 2,069 2,036 149 157 London clearing banks 1978 Nov. 15 17,039 18,236 1,645 1.601 788 792 1,132 1,077 Scottish-clearing banks 19,807 2,529 2,589 1978 Nov. 15 2,215 2,287 619 659 268 267 **62** 75 168 springen freland banks 156 1978 Nov. 15 22 22 13 13 1978 Nov. 15 34,052 11,393 8,350 4,839 of which in sterling 2,227 4,861 1978 Nov. 15 34,052 36,225 5,220 5,382 1,129 1,240 1,838 1,848 2,253 Changes: to sterling 1978 Aug./Nov. +114 + 18 +111 +154 + 42 in foreign currencies adjusted Nov.'78/Feb.'79 +162+10for exchange rate effects ... 1978 Aug./Nov. -17 Nov. 78/Feb. 79 + 27 4,578 5,094 London clearing banks 1,069 1,243 1978 Nav. 15 208 259 432 519 Scottish clearing banks 1978 Nov. 15 1979 Feb. 21 76 78 Adom Salom Cading 1.086 Can Blatt Northern Ireland banks! 1978 Nov. 15 111 20 23 25 25 1979 Feb. 21 11,808 12,721 1978 Nov. 15 of which in sterling 1,505 1,583 1978 Nov. 15 9,597 718 1,481 in sterling in foreign currencies adjusted for exchange rate effects ... 1978 Aug./Nov. Nov. 78/Feb. 79 +845 +203+ 63 of which in starling 3.912 lising and arryin 153 156 2,534 2,604 London clearing banks 3,915 4,078 2,681 2,808 2,579 2,648 1978 Nov. 15 1979 Feb. 21 1,401 1,394 1,023 1,234 1,270 Scottish clearing banks 1978 Nov. 15 1979 Feb. 21 515 540 159 173 347 378 72 63 118 114 300 301 Morthern Ireland banks 1978 Nov. 15 1979 Feb. 21 111 121 138 33 105 115 147 All banks 1,952 1,991 1,453 1,429 4,133 4,266 5,848 5,028 of which in sterling 1978 Nov. 15 1979 Feb. 21 4,180 1,945 1,982 1,606 1,678 5,838 6,018 4,124 4,257 in sterling +113 + 37 +163+71 +47 +23 +133in foreign currencles adjusted for exchange rate effects ... Amounts outstanding 7,781 7,833 8,421 8,458 9,174 1,675 1,725 1,823 1,911 1978 Feb. 15 1,781 1,845 1,932 678 531 547 448 786 842 859 777 852 1,481 1,556 1,669 1,657 541 573 604 621 10,098 10,555 1,770 1,781 513 548 552 593 May 17 Aug. 18 Nov. 15

> .. 1978 Aug./Nov. Nov. 78/Feb. 79 in foreign currencies adjusted for exchange rate effects ... 1978 Aug./Nov. Nov.78/Feb.79 +158-13 Including lending under special schemes for domestic shipbuilding. † The analysis provided by Northern Ireland banks differs slightly om other banks. Chemicals and allied industries are included indistinguishably in "Other manufacturing"; Metal manufacture, Electrical agineering, Shipbuilding and Vehicles in "Other engineering and metal goods"; and Transport and communications in "Public utilities ad national government." I The figures exclude as far as possible the effect of changes in exchange rates on the sterling value of transces in forceign currencies.

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mHes, 617,250, 1975 450 SLC

1979 Feb. 21

1978 Nov. 15

1978 Nov. 15

1978 Nov. 15 1979 Feb 21

1978 Nov. 15

1978 Nov. 15

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In the HIGH COURT OF JUSTICE Chancery Division Companies Court. the Matter of LIDEN PLASTICS LIMITED and in the Metter of The Companies Act, 1848. ition for the Winding up ove-named Company by the urt of Justice was on the 2 Court of Justice was on the 2st day of March 1979, presented to the said Court by BEGG & CO TERMO-PLASTICS LIMITED whose rejestered folice is situate at 37, St. Mayarer's Street, Canterbury, Kent, and that the said Petition is directed to be heard before the Court sitting at the Royal Courts of Justice, Street, London WC2A 2LL, on the 30th Jay 91 April 1979, and any creditor or compibutory of the said Company despous to support or oppose the making of an Order on the said Potition may appear at the time of hearing, in person of by his coursel, for that purpose; and so copy of the Petition will be jumished by the undersigned to any, creditor or contributory of the said Companies of the regulated charge for the same.

HERBERT OPPENHEIMER.

NATHTAN & VANDYE,
20, Copthall Avenue,
London ECZR 7JH.

Ref: TI/SRO. 78 68146.

Solleitors for the Petitioner.

Ref: TI/SRO. 78 66146.

Solicitors for the Pertisioner.

NOTE.—Any person who intends to appear on the hearing of the said Petition must serve on or send by post to, the above-named notice in writing of his intention so to do. The notice must state the name and address of the person, or, if a firm, the name and address of the firm and must be signed by the person or fign, or his or their solicitor (if any) and must be served, or, if posted, must be served, or, if posted, must be seat by post in sufficient time to reach the above-named not latter than four of clock in the arisamon of the four o'clock in the atte 27th day of April 1978.

No. 00842 of 1979 HIGH COURT OF JUSTICE Division Companies Court. Iter of MEREWORTH ESTATES Companies Act. 1948.

NOTICE IS HEREBY GIVEN, that a Patition for the Winding up of the above-named Company by the High Court of Justice was on the 19th day Court of Justice was on the 19th day of March 1979, presented to the said Court by BARCLAYS BANK LIMITED whose registered office is at 54 Lembard Street, London, E.C.3, and that the said Petition is directed to be heard before the Court shring at the Royal Courts of Justice, Strand, London WCZA ZIL, on the 30th day of April 1979, and any creditor or contributory of the said Company desirous to support or oppose the making of an Order on the said Petition may oppear at the time of hearing. In person or by his counsel, for their purposes and a copy of the Petition will be furnished by the undersigned to any creditor or contributory of the said Company requiring such copy on payment of the regulated charpe for the same.

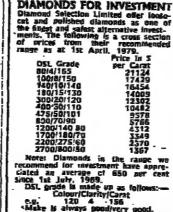
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DURRANT PIESSE, 73 Cheapside, London ECZV 6ER. Ref: GFM/DSB/BKH, 3442.

Ref: GFM/DSB/BKH. 3442.
Solicitors for the Patitioner.
NOTE.—Any person who intends to appear on the hearing of the said Patition must serve an, or send by post to, the above-named notice in writing of his intention so to do. The notice must state the name and address of the person, or, it is firm the name and address of the firm and must be signed by the person or firm, of his or their solicitor (if any) and must be served, or, if posted, must be sent be sent by post in sufficient time to reach the above-named not later than four o'clock in the attempon of the 27th day of April 1979.

MOTICE IS HEREBY GIVEN that Mohammed Alzel Javald of 229 Gt. Portland Street. London WIN 3HD is applying to the Home Secretary for naturalisation and that any parson who knows any reason why apturalisation should not be granted should send a written and signed statement of the facts to the Under Secretary of State. Home Office (Nationality Division), Lunar House, Wellesley Road, Croydon CRS 2BY.

COMPANY 5% DESENTURE STOCK



The following is a record of the principal business and financial engagements during the week. The Board meetings are mainly for the purpose of considering dividends and official indications are not always available whether dividends concerned are interims or finals. The sub-divisions shown below are based mainly on last

Woo'combers 7'spePf. 2.825pc. 6pcPf. East Rand Cons. Gramplas Hider. Strop. 50 Cts TOMORROW Ladbrob. CCMPANY MEETINGS— Ladbrob. (F. J. C.) COMPANY MEETINGS—
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Gendlays Hold-ogs. 23. Fersaurch Sc.
EC. 1130
Marchwell, Grossenor Hotel, Coester. 17
P. nilago Inc. 15t J. Albyn Plate. Eclo-BOARD MEETINGS-Finals:
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Bank of Scotland
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Polishon and Disk Water Tpc (Imiz. 13pc)
Max. 1.5et. 4.9pc (Imiz. 7pc) Max.
New 2.6pc. 4.4227p
Gerarda Ger. A 1.4227p
Gerarda Ger. A 1.4237p
Gerarda Ger. A 1.4237p
Gerarda Ger. A 1.4237p
Marchial Rubber 9.75p
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Dividend A. Met. Property
Dividend A. Interest Re.

DIVIDEND & INTEREST PAYMENTS—
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ABycan lux 10 CL
Albido 1p
Angled Textre 4.22175p
Argust Prop 7.507i. 2.625pt
Armitude Sharks 2.01p
Australia 5.00 Reg 81-82 2.pc

LRC intm. Gloses
Laurence Soor 29
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St. 5.W. 12.33
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Peachev Property
Peter's Stores
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Bath and Portland 2.0149
Eugaden and Neakys 2.75730
Artidectine Ord. A 6.2652150
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2.6560
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Canual. de Grace 0.59
Consideras Tst. 1.158
Gorden Tst. 30.
Junia (J. 4.90
Junia (J.

2.5p (bla 36 9.79)

Tabelde inv. Tst. 5rt.Pt. 1.75sc. Do. 2.93p
Vinors 0 5p
Warne Financo 1.678725s
Warnes Plantstiors 2.345p
Vitter (Thomas) 2.641345p
Yebras Inv. Tst. 5.525p
THURBADY, APRIL 5
COMPANY MEETINGS—
Couch Derekl. Great Nettern Hotel
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Ladios Price Daterwar 145 St. Saviour's
Raad. Leicester. 11.45
Law Debatture Corp. Eventes House. 66.
Gresham St. E.C. 11.30
Schwirk Forbas Bland Pavne. Sedgrick
Firnes House. 33. Alegate High St. E.C. 12
Thermal Syndicate, Royal Station
Merytastle upon Type, 2.15
PORED MEETINGS —

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Drayton Far Eastern Trust 0.7259
Estat Lancashire Paper 2.1759
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English and Scottish Int. Ord. 2.050
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Vatney Mann and Truman Debs. 1'. 21sc
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Marsham Street,
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Capital National Tat. 1.75°p
Cylin Olions 2.790°pp
Celeman IE. Alect Inc. 1.75°p
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Dale Electric Incl. 1.675°p
Dale Strong 20
Laddes Pridge Outerwest 1.209°p
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DIVIDEND & INTEREST PAYMENTS—
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Mataritàv Pharmaceuticals 1.5p
Trus: Nusses Forte 7.78p
Yorkshire Fine Woollen Spinners 20

Sotheby's to auction Viking bracelet

1,000-YEAR-OLD Viking coin, while on honeymoon Paignton, Devon, is expected to by's, Belgravia, on June 5.

bracelet found on a beach at searching for shells.

Paignton Devon is expected to The bracelet is 99 per cent fetch £3,000 in auction at Sothe-hr's Belgravia on June 5 month that it was Mrs. Creasov' It was discovered by Mrs. May property. She took it to Britis' Creasey, aged 29, of Coult Museum officials who advise. Avenue, North Hykeham, Lin-her to go to Sotheby's.

Medinistic Oliviosis & Interest Payments Ace Machinery 3.228p disc supp a 0.031s of y 2019.777 Acrow Ord Mort. Corp. 10-spc Bds 1 Acrow Ord Mort. Corp. 10-spc Bds 1 Action Lames Sized 2.5p Bamsion Property Ln. 3-spc Barr (A. G.) 1.6777p linc supp dis 0.0225p dis y, y, 2.58125p linc 0.02 add pymnt to ipt, div. British Electric Traction Dd. Ord. 1 Britishs Electric Traction Dd. Ord. 1 Britishs Electric Traction Dd. Ord. 1

Architecture medal for Eames

THE Royal Gold Medal for Architects said that the citation Architecture has been awarded pays tribute to the partnership to the office of Charles and Ray Eames, the American design partnership begun in 1941 by Charles Eames, who died last and, more recently, communic.

August, and his wife, Ray.

tion through the medium of The Royal Institute of British films, graphics and exhibitions."

record of "innovation and exc lences in such diverse fields architecture, furniture design tion through the medium o.

General Cable International N.V. Guaranteed Floating Rate Loan Notes 1980

In accordance with the provisions of the above Notes, Irving Trust Company, as Fiscal Agent, has determined the Rate of Interest payable with respect to Coupon No.

18 on Friday, September 28, 1979 to be Eleven and

Seven-eighths per cent (11%%) per annum.

Irving Trust Company,

"If you address 10,000 letters speed and cost count. The 'Monotype 80' was the answer."

So says John A G Shearsmith, managing director of Network, the exhibition and conference organisers of Buckingham. Network organises six conferences and exhibitions in Britain and overseas, its list of exhibitors, potential exhibitors, and other contracts run to 40,000 names and addresses and updating them, with 50-100 changes a day, was a problem with conventional addressing equipment. "We bought the 'Monotype' 80 Word Processing System purely as a cost-effective way of maintaining our mailing list more efficiently and economically. It does that - but there is a bonus" said Mr

Network also owns a printing company, and for big mailings

Shearsmith.

of 10,000 letters or more the letters are printed offset litho. "Now we can personalise every printed letter or, for smaller mailings, use the 'Monotype' 80 to process the letters. We chose the 'Monotype' 80 after asking 67 companies to solve our problems - Monotype Communications had the answer."

Mr Shearsmith, with a staff of eight at Network, and an office in Germany, plans expansion in Europe and the Far East. "This means a growing mailing list and more conferences and exhibitions. Network keeps separate discs for each event. and as our lists extend the 'Monotype' 80 will cope, and still provide the bonus of powerful word processing" he explained.

"We are not a big company compared with some in our field, but we're the first to tackle mailings this way for conferences and exhibitions. The days of conventional addressing systems are numbered, in my opinion. when a machine can provide so much, so fast and so inexpensively by comparison."

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VEHICLE SUPPLIED HARTWELLS LEGAL NOTICES No. 00872 of 1979

COMPANY NOTICES

Accordances must be received by J p.m. on 20th April 1979. Shareholders are therefore advised to make immediate consecvations. DA COSTA LIMITED, (Retweene RHW).

CANADIAN PACIFIC LIMITED

In preparation for the payment of the haft-yearly interest payable on June 1 next the Debenture Stock Transfer Books will be closed in 3.30 p.m. on May 1 and will be re-opened on June 2. W. E. REEVE, Deputy Serretary. London ECA 100.

TRAVEL

GEMEYA—Delly Jet Rights from Gatwick with British Caledonan from \$50 februs. CPT, 61-351 2191.

RASLE—Four Rights weekly, £55 meturn. CPT, 01-351 2191.

SKI EASTER WEEKEND — 12/4-16/4.

CSufmayour from £69, Avorlaz from £110. inc. flights. Call CPT, 01-351 2191.

DIAMONDS FOR INVESTMENT

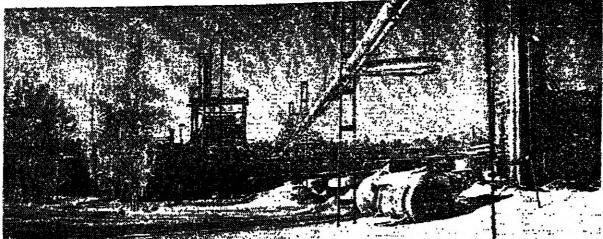
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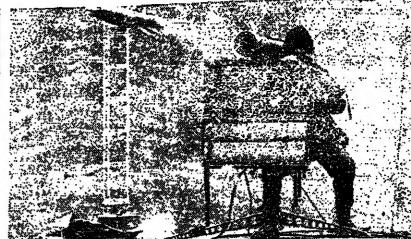
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THE MANAGEMENT PAGE







chemicals and its continuing commitment to annuments. Claes-Ulrik Winberg (left)-concentrating his mind on getting the right diversification mix; a spent acid plant (centre) and

Bofors sets its sights on a

WHAT DOES a world-renowned arms manufacturer based in a neutral country do, when its domestic market threatens to shrink and public opinion strongly favours disarmament and curbs on trading in weapons? Exploit its technological know-how in less contro- year. versial fields and diversify quickly, is the obvious response,

But Bofors has been in and out of "civil" production for the past century or so and in the view of Claes-Ulrik Winberg, managing director of the Swedish armaments group, diversification is the ZID an answer. Since he took over in 1673 he has eliminated some 20 product groups from the com-nany's range—including some of its steel interests—but he feels that Bofors is still ton diversi-

It does not pay, he argues in contradiction of much previous Bofors' thinking, to move into products which the company's workshops have no experience of manufacturing and which call for a widely different marketing and financing approach. This philosophy is born of experience. The ordinance division has continued to be the main source of Bofors' profits, whereas several attempts at diversification have not turned out well.

Bofors' strength has lain in its engineering and technical skills. It has been orientated to product development rather than to marketing. Its main customers have been greerments and defence procurement departments and it has not been segred to meet the demands of variegated industrial market. The policy evolved by Mr. Winberg, therefore, has been to develop profitable, new operations out of the group's existing skills aimed at a product market of which it already has experi-ence. This is why Bofors has decided to concentrate on chemicals as a second piller along life its ordnance activities and is ackling the U.S. market.

Olof Norberg, currently has a turnover of around Skr 600m (£68m, \$138m) which is less than a quarter of total group sales and half the ordnance division's turnover. But its operating profit has grown from Skr 5m in 1974 to Skr 43m last

The link with armaments comes through explosives and propellants. In producing the ammunition for its weapons and the fuels for its missiles Bofors had to develop techniques for the safe treatment of explosives and arid concentrations. Bofors Nobel aims to cash in on these techniques by providing speciathe chemical and pharmaceutical

Dangerous

Parallel with its explosives production Bofors has specia-lised in nitration and nitric acid oxidation processes. More reproduction Bofors has speciately of buying up another lised in nitration and nitric acid oxidation processes. More recently, to meet new pollution get U.S. sales up to SKr 150m and environmental requirements, it has had to develop techniques for handling the "spent acids" left by the pro-cesses. As a result it is now able to take over for other companies the processing of their raw materials and the handling of dangerous wastes, which is often a costly and embarrassing everhead for them.

Pharmacautical companies, in particular, want to put their money into research and development and into marketing. For an individual company the nitration processing of its chamicals is a small volume but amit operation with potenplants, saving its customers the investment and the pollution headache.

Almody the division salls 90 per cont of its chemicals abroad, rekling the U.S. market.

Before Nobel, the chamicals West Garmany and the U.S. But plastics division under a the greatest paradicides in the crating enough profit to finance contribution from armaments weapons and ammunition outling general manager. Per U.S. 200, at a letter stage, passitis own investments but Mr. and—more modestly—chemicals put has gone to the Swedish

new diversification target company, Lakeway Chemicals

Inc. Michigan, in October 1977.
It is now in the process of extending its technology to Lakeway. A spent acid plant will come on stream in the autumn and a new nitration plant should provide extra capacity next year. The possibil-10 per cent annual volume growth thereafter. The Swedish-based Nobel

Kemi remains the largest unit in Bofors Nobel with 40 per cent of its contracts still coming from military customers. A third unit, Nobel Chematur, which has been operating since the 1980s as a chemical engineering contractor, mostly in designing explosives factories, can also benefit from the division's new vanture.

The decision to expand on the into renovating the crasking engine and turbine company.

ibly in Japan. In Europe trans. Norberg's target is to contribute and the losses sustained by the port overheads are not a prob- to group cash flow by 1982. His steel and engineering operaport overheads are not a probto group cash flow by 1982. His
steel and engineering operalem because the business is in
specialised, not bulk, chemicals,
but to tap the U.S. market
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botto tap the U.S. market
bottoms The odd one
out, it does not share the basic
contracts are also the main
technology of the other three
source of the good financial insource of the good financial inunits, producing plastic components for cars, trucks and cara-result.

Yans on the civilian side and The uncertainty shrouding missile tubes on the defence the future on the arms side equipment side. After taking makes it all the more imperative over the plastics operation of for the management to pare the Treleborg company last away its cash-consuming opera-

year, Bofors currently has con- tions. The profit criterion is

BY WILLIAM DULLFORCE

siderable over-capacity plastics and some rationalisa-tion is needed. suspects that Mr. Winberg would happily get rid of the whole steel business.

While chemicals are regarded is in no mood to abandon the profits of its weapons manufac-turing and attitudes towards the chemicals side was taken in future of the ordnance division 1976, when a three-year SKr at Karlskoga headquarters are 200m programme was adopted, by no means defeatist, but steps tial pollution problems. Bofors It is almost eximplete. Half or have already been taken to Nobel offers to produce these more of the investment has gone reduce the group's exposure on chemicals at its specialised into environmental improve the loss-making steel side and ments and another large chunk on Bofors-Nohab, the diesel

in being re-emphasised and one

The ordnance division furwhile chemicals are regarded as having the greatest growth potential, more than three-quarters of the group's Skr 2.8bn (£320m, \$645m) turnover is still being generated by the ordnance, steel and other engineering operations. Bofors is in a record to shouden the 14,000 employees work on military contracts. At Karlskoga some 5,500 of the 8,500 employees are directly or indirectly involved in weapons and ammunition production.

Mr. Winberg believes that the ordnance division has probably reached its maximum size. The cuts in Swedish defence spendplant at Karikhoga, so that it is only now that the real expan-sion of capacity is coming the street of capacity is capacity in capacity in capacity in capacity in capacity is capacity in cap ing already foreshadowed mean

vil gradually be reduced, posby as much as half.

The prospects for increasing port sales, it is felt in Karlskoga, depends more on political attitudes than on havthe right products. Recently, foreign affairs committee of Swedish Parliament voted imously for a re-examinaof the regulations govern-Swedish weapons exports. he government has also set a commission to investigate opportunities for the arma-

fors makes guns and mis-to Swedish specifications which ensure that they are fundamentally defensive in nature. This "lock on the attitude to defence ts countries which share

en's neutral strategy, and oping countries, whose nments feel the need for errent defence. ign demand for Bofors' e politics of Swedish arms its are complex in the ne. Bofors sells to NATO Its power-operated 040mm gun, the successor te one which defended Fritan in the second world war,

mein anti-sireraft in many countries' The third generation, 75, using a proximity and a pre-fragmented shell final stages of comon with the Swiss Oerliken S. order. ts' portable anti-offeraft

bought by Norway and is being company.
evaluated by other NATO Bofors'
countries. It is being developed the erection for use at night. The 155mm ing plant at its Kilstiverker FH 77 mobile howitzer has also works in a joint venture with

world disarmament against the tradition that the country's own defence forces should not rely solely on foreign suppliers and the knowledge that domestically produced weapons are cheaper. if manufactured in larger series than required by the Swedish forces. In practice Swedish authorities have been fairly pragmatic and Bofors has not been deterred from planning its export drive.

But the Government and the Defence Procurement Organisa-tion have been keen recently to concentrate domestic arms production, particularly on the missile side. Last year Sweden's two producers established the Saab-Botors Missile Corporation at industry to switch to Saab-Bofors Missile Corporation for joint design, development it," Mr. Winberg says and production of the next utily, "there is no alternamissile generation. missile generation.

Military

If Mr. Winberg has to adjust to the political wind for the half of the group involved with military contracts, he is able to take straightforward business decisions in the other half. The steel operation, which has been operating at a loss for three years, has been trimmed, a reconstruction of the drop forging plant is planned and a partner has been found for the diesel engine operation.

Although in the 1870s Bofors was the first company in the world to cast a gun from steel, there is now virtually no link between its strel and armaments sides. In steel it has had two main operations, the production of high-alloy tool and construction steels and a forge producing chiefly heavy lorry crankshafts. The first operation has been effectively dropped from the beginning of this year under an to stick to his last.

missile, the RBS 70, has been agreement with the Uddenholm

Bofors' SKr 400m plan for the erection of a new drep forgattracted foreign attention.

Sumitomo, which would have Swedish politicians have to supplied the new press, suffered balance ideals and attitudes to a setback when the Japanese world disarmament against the company withdrew. The new press would substantially en. large crankshaft output and therefore calls for a larger market. There is probably room for no more than four such presses in Europe; two are already operating and a third is being considered. The alternatives for Bofors are to find arother partner with both finance and market access, to persuad? the Swedish Government to finance a smaller forge or to abandon the whole crankshaft

> From the other bes-makin company, Bofors-Notab, diesel engine production was transferred last year to a new company which Bofors owns jointly with the Finnish Watsila con-cern. The idea behind this move was similar to that which prompted the dropping of the tool steel business—that !t would be better off ourside the Bofors group. Through the Finnish market and Wartstlä's contacts with the Soviet market the venture, it is hoped, will have the scope to develop new

husiness.

engines.

Bofor's history goes back to the middle of the 17th century when a hammer forge wabuilt at Boda fors (meanin; stream), close to its presen Karlskoga headquarters, Alfre Nobel, founder of the Nobel prizes, took over the comparin 1894, introducing the amminition and explosives busines with its complementing chemcals production.

After all the twists and diversifications of the intr-vening years the Bofors which Mr. Winberg is taking into the 1980s remains fundamentaly that of Alfred Nobel, an arraments and chemicals concen. The cobbler has found it bet



When people hear the name Rijn-Schelde-Verolme, they naturally think of shipbuilding. And well they should, since our shipbuilding heritage is known around the world.

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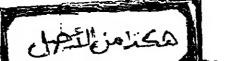
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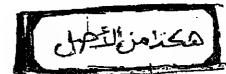
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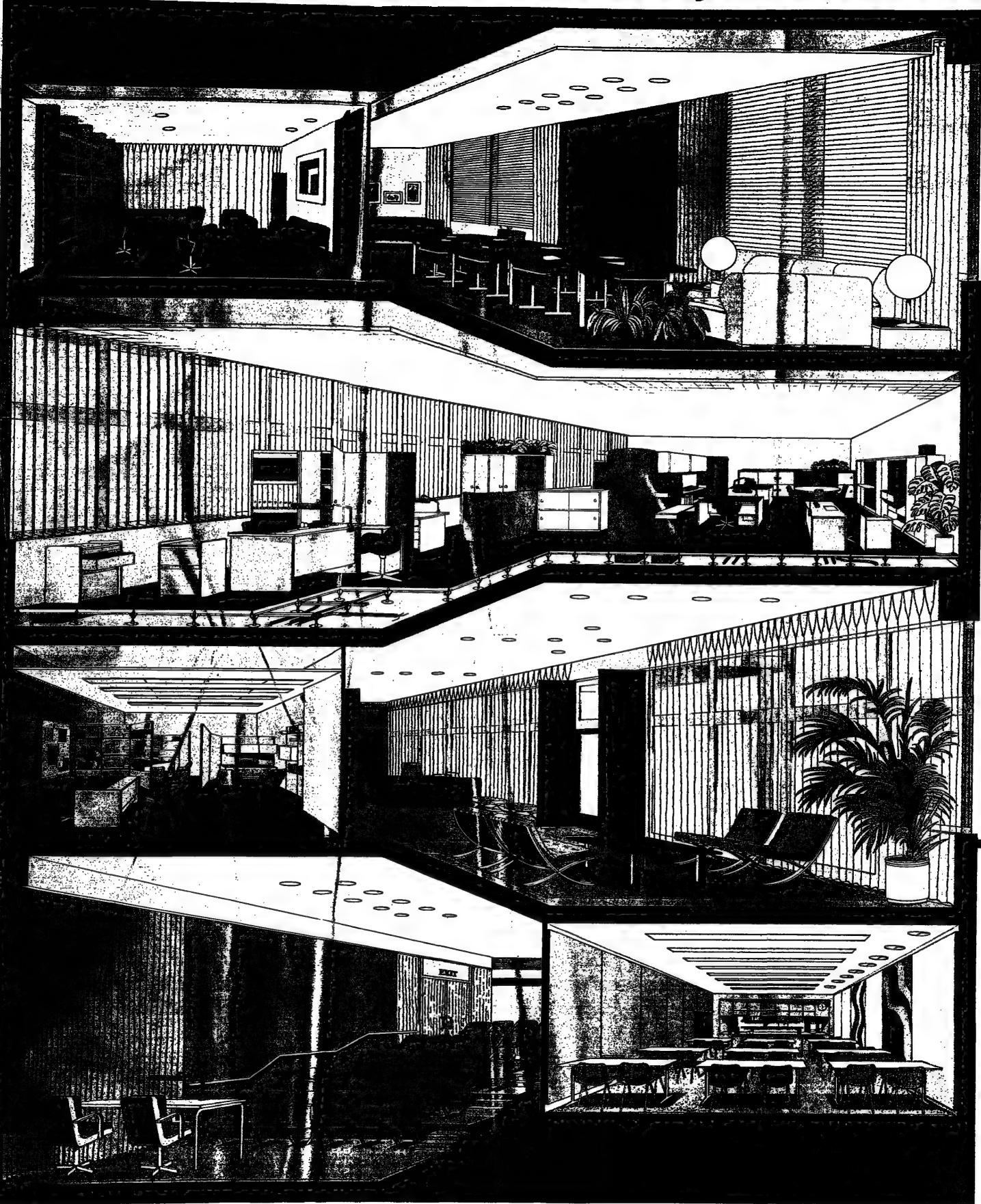
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Case for a new wage formula

BY SAMUEL BRITTAN

minimise the damage caused by But it is not possible to guaranhigh, variable and uncertain tee real wages for everyone all rates of inflation - and also the time. All that true indexaas a useful accompaniment to tion can do is to provide a like peace, indexation is

divisible. The strongest case is on the fiscal side. This is simply to prevent governments from increasing the tax burden surrepti- yield a negative real rate of tiously as a result of the auto- return.) matic effects of inflation (fiscal drag) or changing the degree of progression, or shifting the burden between direct and indirect

Business

The case for wage indexation is a little more problematic because it is more open to abuse. One unfortunate example was the Heath threshholds which contributed to the wage explo-sion of 1974-75. Every time one goes to Italy one hears of the scala mobile, which adds cost of living compensation to normal wage settlements and is re-garded by the IMF and other analysis as one of the main obstacles to financial stability.

These are arguments, however, against the wrong sort of wage indexation at the wrong

A plausible formula has been put forward by Richard Layard the London School of Economics in his Colston Research Society annual lecture given last week. His basic argument is that the search for consensus in relativity adjustments Il doomed to failure, but that some progress would be made by a formula which ensured at least rough stability, so that the thing that negotiators settled value of a settlement did not depend on guesswork about the size of later settlements, or on the overall inflation rate.

The principle is that a new settlement should grant a worker a real wage equal to the average level of his earnings over the last 12 months; allowing, in other words, for half the annual inflation rate. From then on wages would be adjusted month by month in line with the retail price index. would have the subsidiary advantage that after 18 months a worker's real wage, and his place in the pecking order, would be independent of his settlement date.

Layard's proposal requires elaboration. His formula can

THE CASE for indexation to be used to provide a basic scale. fundamental policies measuring rod which would designed to bring the rates allow negotiations to take place down - has frequently been in real terms, so that the two made in these columns. But un- sides did not have to guess about the general rate of inflation as well as conditions in their own industry. (There is analogy here to a dated indexed security, which might sometimes

There would thus have to be provisions for percentage additions or subtractions to the scale. For instance, when there is a fall in real national disposable income, of the kind that occurred after the oil price explosion in the mid-1970s, there would have to be a percentage deduction from the scale.

Opinion

It should be possible to write into contracts provisions for referring to outside economic bodies, not necessarily govern-mental, for an opinion on whether conditions had arisen requiring a change in the basic scale. But once the cost of living adjustments had taken care of the effects of inflation, the further percentage changes designed to reduce or increase real wages could be very small.

proposal as a form of incomes policy. This is, in my view, the worst way to launch it. Then it would have all the disadvantages of a norm; and every deviation from the scale would have to be negotiated in Downing Street. Wage settlements would once more seem a gift from the Government, rather than someamong themselves. Above all the requirement is for individual experiment rather than a completely uniform approach.

discouraging indexed agreements, as it has been doing during the pay policy period. Naturally, employers are reluc-tant to offer cost of living compensation on top of a national norm, with some wage drift But without a norm, and with some independent agreed procedure for adjustments in midcontracts, different forms of indexation could develop a life of their own. The more the Nevis: Government stays out of it, the better.

Sorting out tenants' families and Rent Acts

LEGISLATION giving tenants woman who were not married and their families protection could be members of the same meaning of the word had mony.

The burning question for a gainst eviction from their family which would not require changed the courts could give the court to product th continues to pose the court to predicate the same awkward problems for the of two old cronies of the same courts. Two decisions recently sex innocently sharing a flat: in the Court of Appeal1, following, distinguishing or com-relationship involves sexual menting on (not always in a relations, it seems to me." he

complimentary way) a chain of decisions over the years, is bound for the House of Lords. The problem is in essence very simple: who constitutes a member of the tenant's "family"? Or even simpler, what did Parliament mean by the use of the word "family" in a succession of Rent Acts? The problem arises whenever

tenant protected by the Rent Acts dies. The law, ever since the first statutory intervention into leasehold premises during the First World War, has decreed that a member of the tenant's family was entitled to succeed to the protected tenancy. Until recent years the cases in the courts produced simple solutions. A member of the tenant's family had to be someone who was in a publicly recognisable family relationship, such as that provided by blood, marriage or adoption. Platonic relationships, however close and devoted, were insufficient to establish a familial nexus.

Lord Justice Asquith in 1950 put the matter in an outmoded judicial language. He could see nothing in principle on which t could be said that a man and

"If, on the other hand, the said, "anomalous that a person can acquire a 'status of irremovability' by living or having lived in sin, even if the liaison has not been a mere casual encounter but protracted in time and conclusive in character.

"To say of two people masquerading as husband and wife (there being no children to complicate the picture) that they were members of the same family, seems to me to be an abuse of the English language." Three years ago, the Court of

Appeal faced the formidable opposition of such judicial precedent to any different legal attitude to change social habits.‡ A man lived with a woman as if she were his wife for 21 years until he died. They never married and had no children. After his death she remained in the house and paid the rent as if she were his widow. The landlord discovered the true relationship and sought pos-session of the house.

wriggled out of the earlier precedent by saying that what constituted the family in 1950 did such unions indistinguishable not necessarily bind them in from the unions made licit solely the cher's.

changed the courts could give the ourning question for a effect to that change. Lord judge was: could effect be given benning simply said that the to this changed social attitude,

earlier decision was wrong and and consequent change in the scope of a common English declined to follow it. The majority's approach was word, without doing violence to to ask the question, what would the doctrine of judicial precethe answer be to the question. dent? The two judges in the who is the "member of the majority thought that it would

THE WEEK IN THE COURTS BY JUSTIMIAN

the understanding of the ordinary man. It was undeniable that a social revolution had taken place in the last 25 years radically altered. If language in the attitude to illicit unions. More and more couples are declining today to go through a ceremony of marriage but still live together, which for all inshould not continue to govern the eafter. tents and purposes has the hallmarks of the matrimonial

Any social stigma that did attach to such unions has lessened, if not altogether The inaccurate, disappeared. but traditionally Two members of the Court husband" is used to describe sharld the expenses of their

tenant's family" according to be imduly legalistic to adhere to precedent when the social situaupon which the earlier dedision was based had so change its meaning to acord with changing social conditions, then a decision on the mening of that word in a statute before such change

> Helby v Rafferty defendant lived with a woman la yell-known journalist) who was the statutory tenant, from 1977 until 1977 when she died expressive traggally. They did not marry law wife and had no children. They join home, going out together in a way that showed that each of their lives was bound up with

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OPERA & BALLET

when she became would such that they regarded them be expected to do. At no time selves (as did other who knew did she pretend that she was a them) as aunt and nephew. She married woman by using his died in 1976, whereupon he conname or by giving any hint to tinued to reside in the flat and any person that they were a claimed to be her successor to married couple.

married because she wanted to retain her independence and freedom to withdraw from the relationship without the awkwardness of having to untie the matrimonial knot, held that the relationship was not so permanent and stable as to justify the view that they were members of a single family. And the Court of Appeal agreed.

It distinguished the 1975 case by saying that the stability and the permanence of the relationship was the key issue, that that was a matter of fact for the trial judge and his conclusion could not be upset.

If that case is virtually distinguishable from the 1975 case, the second case poses even more awkward questions, since the individuals could not even claim that their relationship simulated matrimony. In 1957 a young man aged 24 formed a relationship with a widow of 75, and a year thereafter lived with her in a flat of which she was the tenant. The widow paid the rent but other expenses were shared, neither being financially dependent on the other.

the statutory tenancy. Again The county court judge, hav- the Court of Appeal declined to ing concluded that she had not say that they were members of

Red Herise

There is a strong suggestion in the judgments that, apart from blood ties, the only other relationships established by law namely marriage and adoption can qualify. Our law does not recognise any adoption of adults. only of children. One the reistionship is other than a legal one or by blood, it becomes impossible even to exclude the mythical "two old cronies sharing a house."

If the family encompasses members of it who are related in a social and not merely a legal sense, then the homosexual couple (male or lesbian) may also qualify as a protected tenant if and when the parine dies. One way or another the House of Lords is facing some tricky problems of a socio-legal nature. The result of its deliberations will be intriguing in more than one sense.

1 [1979] I W.L.R. 3 and 13. Gammans v Ekins [1950] 2 K.B. 328.

Dyson Holdings Lid v Fox [1976] Q.B. 503.

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ART GALLERIES

ENTERTAINMENT GUIDE National course needs scrutiny WINDMILL C. 427 8312. Nightly at 8.00 and 10.00 Sunday 8.00 and 8.00. Paul Raymond presents RIF OFF: The erotic experience of the midding ray. Now showing new second edition, new girts, new acts, new production.

WITH ONLY seven of the 34 starters for the Grand National having completed the course, and riderless animals creating havor at the Chair, the time has surely come for a close inspection of the Natonal course and its fences.

I have little doubt that a gap should have been left in the

RACING

BY DOMINIC WIGAN

on the first circuit between the 14th fence and the Chair, for had there been a filter there for Chair would undoubtedly not have claimed nine victims.

fault of their own included Kintal, who broke his back; Ben Segundus; Godfrey Rambling Artist; and Champ.

There seems little question that the three or four loose animals who created the worst turmoil at a National fence since the race ground to a complete standstill at the 22rd in Foinayon's year of 1967 would have been only too pleased to opt out of proceedings had a filter been open to them. As it was, they met the Chair

ing enthusiasm just in front of the leaders. Within a second or two the whole complexion of the race had changed. It must be hoped that by next year every effort will have gone into providing "shoots" and minimising the severity of some temporary running rail, erected fences, which seem beyond all

at varying angles and with vary-

the outstandingly surefooted. Even allowing that many runloose animals to run out, the ners came to grief through being brought down, it is disturbing that of the 27 who lined up for the National without having fallen this season, nine came down without suffering inter-

ference. In a race attended by 66,000. 9,000 more than last year, and watched by 500m television

NOTTINGHAM 2.00—Run Like Heli 2.30-Tuthill Bond** 3.00-Bad Love* 4.30—Cannon King***

viewers worldwide, the saddest moment undobutedly came at Bechers second time round where Alverton was killed. He was travelling well within himself at the time, according to Jonjo O'Neili and Mr. Snowman's rider, Graham Thorner. The latter commented: He looked to be a different class to the rest at the time." Alverton died instantly through a broken neck.

Radio drama wins prize

THE CLERKS, a BBC drama first broadcast on Radio 3, is joint winner of the first Prix Futura for radio drama. It is worth DM 5,000 (£1,310). The other joint winner is Danish play.

General Service 2.00 pm). 6.00-8.21 Y Dvdd. 6.30-9.00 Yr Wythnos. HTV West—As HTV General Service sycept: 1.20-1.30 pm Report West Head-lines 6.22-7.00 Report West.

SCOTTISH SCOTTISH

5.30 am Utrillo—A Painter of Poris.

5.50 Diery of Civiliastion. 10.45 Face to Faith. 11.10 Country Comes West.

11.35 Weiking Wastwerd. 1.25 pm News and road report. 2.25 Monday Mattnes: "Capries" starring Done Day.

5.15 Popeys. 5.20 Crossroads. 5.00 Scotland Today. 6.20 Crimedesk. 6.30 Whike in Winter. 10.45 Home and School. 11.15 Late Cell. 11.20 The Detectives: McMillan.

SOUTHERN SOUTHERN

9.30 am Stationary Ark. 9.55 Little
House on the Frairie. 110.45 "The
Golden Age of Comedy" starring
Laurel and Hardy. 1.20 pm Southern
News. 2.90 Houseparty. 2.25 Monday
Matines: "Three Coins in a Fountain"
attrning Dorothy McGulre. 5.15 Betty
Boop. 8.20 Crossroads. 6.00 pay by
Day. 10.30 Southern
10.50 Music in Camera. 11.20 Fireside
Theatro. 12.15 am Farm Progress.

TYNE TEES 9.28 am The Good Word followed by North East News Headlines, 9.30 George Hamilton IV. 9.55 The Nature of Things. 10.45 Face to Faith. 11.10 Country Comes West. 11.35 Walking Westward. 1.20 pm North East News and Lockarbund. 2.25 Monday Matines: "A Tree Grows in Brooklyn." 3.50 Little Vic. 5.15 University Challenge. 6.00 Northern Life. 11.45 Cash and Company. 12.45 am Epilogue.

ULSTER **TO.45 am Face to Faith. 11.10 Country Comes West. 11.35 Walking Westward. 1.20 pm Lunchtime. 2.25 Keep Up With Yoga. 2.56 The Friends of Man. 4.18 Ulster News Headlines 8.15 Cartoon Time. 5.20 Crossroads. 6.00 Good Evening Ulster. 10.45 Compass. 11.15 Richie Brockleman. 12.10 am Bediume.

WESTWARD

S.30 am Friends of Man. 9.55 Master of the World. 10.45 Face to Faith. 11.10 Country Comes West. 11.35 Walking Westward. 12.27 pm Gus Honeybun's Birthduys. 1.20 Westward Newsheadlines. 2.25 The Mondey Matinee: "Carnival Of Thieves." 5.15 University Challenge. 6.00 Westward Diery and Sports Desk. 10.32 Westward Lete News. 110.50 Feature Film: "Lady Hamilton" Starring Laurence Olivier and Vivien Leigh. 1.00 am Faith for Life. 1.05 West Country weather, shipping lorecast. YORKSHIRE

9.30 am Untamed Frontiers. 10.00 The Wotsit from Whizzbeng. 10.10 Tree Top Tales. 10.25 Ivanhoe. 11.10 Children in 1944. 11.35 Benchombers. 1.20 pm Calendar News. 2.25 Monday Matines: "Caprice" starring Doris Dayand Richard Harns. 4.15 Cartgon Time. 5.15 University Challenge. 6.00 Calendar (Emley Moor and Belmont editions). 10.45 Jigsaw John. RADIO 1

4.35 Story Time. 5.00 PM: News magazine. 5.50 Shipping lorecast. 5.55 Weather, programme news. 6.00 News including Financial Report. 6.30 The Burklass Way (5). 7.00 News. 7.05 The Archera 7.20 From Our Own Correspondent 7.45 "The Dybbuk." play by S. Ansky (S). 9.15 Musical Journeys in Indonesia. 9.30 Kaleidoscope. 9.59 Weather. 10.00 The World Tonight. 10.30 Perspective. 11.00 A Book at Bedtime. 11.15 The Financial World Tonight. 11.30 Today in Parliament 12.00 News.

5.00 am As Radio 2. 6.30 Rush Hour.
5.00 London Live. 12.03 pm Cell in.
2.03 206 Showcase. 4.03 Home Run.
6.10 Look, Stop, Listen. 7.30 Block
Londoners. 8.30 Breakthrough. 10.03
Late Night London. 12.00 As Radio 2.
12.05 am Question Time from the
House of Commons. From 1.05—Join
Radio 2

5.0 am Morning Music. 6.00 The AM Show. 10.00 Brian Hayes. 1.00-8 pm LBC Reports with George Gale at 3 pm. 8.00 After Eight. 9.00 Night-line, 1.00 am Night Extra.

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DAVID ERKE ANGELA DOWN PAINCE EDWARD. CC. 01-437 6877. Tredings 2:00. Mets. Thurs. Sat. 3:00. EVITA by Tim Rice and Andrew Ligyd-Webber. Directed by Harold Prince. PRINCE OF WALES. 01:830 8681. Credit card bookinss 930 0848. Mon. to Thurs. 8.00. Friday and Sat. 8.00 and 8.43. ALAN AYCKBOURN'S snash-hit cornedy EEDROOM FARCE.

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TV Radio · Indicates programme

(Ultra high frequency only). 12.45 pm News. 1.00 Pebble Mill. 1.45 Over the Moon. 3.15 Songs of Praise. 3.53 Regional News for England (except London). 3.55 Play School (as BBC 2 11.00 am). 6.50 A Question of Sport. 7.20 The Rockford Files 8.10 Panorama.

Northern Ireland-3.53-3.55 pm Northern Ireland News. 5.55-6.20 Scene Around Six. 6.20-6.50 Hello

5.55 Nationwide (London and Sunshine. 11.35 News and South-East only). Weather for Northern Ireland. England-5.55-6.20 Look East (Norwich); Look North (Leeds, BBC 2

> 6.40-7.55 am Open University. 11.00 Play School 4.50 Open University.

6.35 Horseback. 7.20 Mid-Evening News including sub-titles.
7.30 The Joys of Opera.
8.10 Lennie and Jerry.

9.00 Rhoda. 9.25 Horizon. 10.15 Arena.

10.55 The Light of Experience, 11.10 Late News. 11.25 Closedown, reading.

Chorlton and The Wheelies. 12.10 pm Rainbow. 12.30 The Cedar Tree. 1.00 News. 120 Thames News. 1.30 About Britain. After Noon Plus. 3.20 This Year Next Year. 4.20 Clapperboard. 4.45 Horse in the House. 5.15

Show. 7.30 Coronation Street. 8.60 Chalk and Cheese. 8.30 World in Action.

9.00 Danger UXB. 10.30 Political Tri-Party Discussion. 10.45 The Eamons Andrews

11.45 Barnaby Jones. 12.40 am Close: Peter Penry-Jones reads the Easter story with a painting by Tintoretto.

All IBA Regions as London except at the following times:

(S) Stereophonic broadcast

†Medium Wave

5.00 am As Radio 2. 8.00 Dave Les
Travis. 9.00 Simon Bates. 11.31 Paul
Burnett. 2.00 pm Tony Blackburn.
4.31 Krd Jensen. 7.00 Stayin' Alive.
8.00 Andy Peebles. 9.50 Newsbeat.
10.00 John Peel (S). 12.00-5.00 pm:
As Radio 2.

#6.55 am Wasther, 7.00 News, 7.02
Overture (S), 8.00 News, 8.05 Morning Concert (S), 9.00 News, 9.05
This Week's Composer: Falls (S), 10.00 Talking About Music (S), 10.30
Vaugham Williams and Schumann concert (S), 11.00 Paul Crossley piano recital (S), 11.30 Midday Concert, part 1; Mendelssohn (S), 12.00 in

ANGLIA and Dd. 9.35 sm Betty Boop Cartoon. 9.50
East The Fire and the Snow. 10.46 Face to Feith. 11.10 Country Comes West. 11.35
Walking Westward. 1.25 pm Anglia Mews. 2.00 Houseparty. 12.25 Monday
News. 2.00 Houseparty. 12.25 Monday
The Magic Bow. 5.15 Manchester, Newcastle); Mid-lands Today (Birmingham); Points West (Bristol); South To-day (Southampton); Spotlight South West (Plymouth).

Welking Westward. 1.25 pm Anglis News. 2.00 Houseperty. 12.25 Monday Challenge: 800 About Anglis. 10.45 Monday Fabrura Film: "Ghenkis Khan" starring Stephan Boyd. 1.00 am Reflection. ATV

A I V
9.35 am Something Different. 9.50
Gerdening Today. 10.15 The Nature of
Things. 11.10 The Mackanzie Affair.
1.20 pm ATV Newadesk. 6.15 Give Us
A Clue. 5.00 ATV Today. 10.45 Laft.
Right and Centre. 11.15 For Better.
For Worse, 11.45 Barnaby Jones. BORDER

9.30 am Solo One. 9.50 A Diary of Cryfisations. 10.45 Face to Faith. 11.10 Country Comes West. 11.20 pm Border News. 2.00 Houseparty. 2.25 Morines: "Protty Baby." 5.15 University. Challenge. 6.00 Looksround Monday. 6.20 The Sound of ... Diane Kirk wood. 10.45 Late Film: "Blood Kin." sterring Lynn Radgrave. 12.40 am Border News Summers.

CHANNEL CHANNEL

1.18 pm Channel Lunchtime News and What's On Where. 2.25 Monday Maunes: "Cernival of Thioves." 5.15 University Challenge. 6.00 Channel News. 6.10 Cartoontime. 10.28 Channel Late News. 10.32 Lucan. 11.50 Nows and weother in Franch followed by Channel Gazette.

GRAMPIAN

9.45 am First Thing. 8.50 Targan.
10.45 Face to Faith. 11.10 Country
Comes West. 11.35 Walking Westward.
1.20 pm Grampian News Headlines.
5.15 University Challenge. 6.00
Grampian Today. 6.05 The Electric
Theatre Show. 10.45 Reflections. 10.50
The Monday Thriller: "Puppet on a
Chain." 12.36 am Grampian Lule Night
Headlines. GRANADA

GRANADA

8.30 am Sesame Street 10.25
Survivel. 10.50 Elephant Boy. 11.15
Picture Box. 11.30 The Beatles. 11.45
A Handiul of Songs 1.20 pm Dodo.
2.25 Mondey Motinee: "Three For The
Road." 3.50 Wait Till Your Father Geta
Home. 5.10 The Undersoa Adventures
of Captain Namo 5.15 Crossroads.
6.00 Granada Reports. 6.30 Happy Days.
10.45 Reports Politics. 11.15 Appointment With Fear: Edward Woodward
and Britt Extand in "The Wicker Man."

HTV HTV
9.50 am Stars on Ice. 10.20 George
Hamilton IV. 10,45 Face to Faith. 11.10
Country Comes West. 11.38 Walking
Westward. 1.20 pm Report Wast HeadInes. 1 25 Report Wales Headines.
5.15 The Undersee Adventures of
Captain Nemo. 5.20 Crossroads. 6.00
Report West. 6.22 Report Wales. 10.50
The Monday Film: "The Loved One."
HTV Cymm/Wales—As HTV General
Service except: 1.20-1.25 pm Penawdau
Newyddion y Dydd. 2.00 Hamdden.
2.25-3.20 After Noon Plus (as HTV

London Broadcasting

Capital Radio 6.00 am Graham Dene's Breuklast Show (S) 9.00 Michael Aspel (S). 12.00 Duve Cash (S) 3.00 pm Roger Scott (S) 7.00 London Today (S). 7.30 Adrian Love's Open Line (S). 9.00 Yaur Mother Wouldn't Like It (S) 11.00 Tony, Myatt's Late Show (2).

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EXHIBITIONS:

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Selected works of Guild of Gas-ceptavers at Astronolean, Oxford, Mar-12-April 12, April 16-22.

die Einer

Featon Hause

BBC 1

in black and white

6.40-7.55 am Open University

4.20 Cheggers Plays Pop. 4.40 Baggy Pants and the Nitwits. 5.00 John Craven's Newsround. 5.05 Blue Peter. 5.25 The Perishers.

ACROSS 1 Jay relatives make excur- 1 Consignment to this place sions (6)

deserver (3-0) 10 /2 more but may announce a roug one (o)

12 Someoning from the countrier can be out of this selection is at a promise (5)

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27 what hyde was to Jekyll

chosen surroundings (8) native labourer (6)

6.20 Nationwide. 9.00 News. 10.55 Tonight

Weather for Scotland.
Wales—1.45-2.00 pm Pils Pala5.55-6.20 Wales Today. 6.59-7.20
Heddiw. 11.35 News and Weather

for Wales.

F.T. CROSSWORD PUZZLE No. 3,937

the masters (8)

16 rucas governor highes une 14 As March comes in the Conposturers (2, 0)
19 happed times canvas with

cagnitude (u) 25 mark manuscripts with

29 Worked for a period in prize puzzle will be published 30 Impudent that is for a

11.35 Weather/Regional News.

All Regions as BBC 1 except

at the following times: Scotland—5.55-6.20 pm Report-ing Scotland. 11.35 News and

4 Fish preserved aboard for 9 AND RESULT IS A DIOW TO LITE

17 She was assured she would look nice on a tandem (5, 4) 23 maye reference to deceased 19 A scrap in a Portuguese

words or opposite meanings 22 Jacket for the dance (6) 24 The French and the English join in a machine (5) bad-tempered person 28 Com uttered by oriental

DOWN

is abrupt dismissal (7)
2 Distracted — like Humpty Dumpty (2, 3, 4) 3 Characteristics shown by artist among the birds (6) 5 Maintain a stronghold (4)

8 Illicit liquor-store puts wait-

18 It takes a climber to know the tune (8) airport causes a mix-up (7) 21 Frank Levy upsets the Gestapo (7)

therefore must get up (4) group in Pennsylvania (6) The solution of last Saturday's with names of winners next Saturday.

Richard Layard presents this

Indeed, all that the Govern-ment needs to do is to stop thrown in for good measure

Those to go at Aintree's most formidable fence through no

LONDON 9.30 am Noddy. 9.40 Sinbad Junior Cartoon. 9.45 "Swanee River" starring Don Ameche and Al Joison, 11.10 Survival, 11.35 England, Their England. 12.90

Emmerdale Farm. 5.45 News. 6.35 Crossroads. 7.00 The Kenny Everett Video

Show.

As Radio 2.

RADIO 2
5.00 am News Summary. 5.02 Tony Brandon (S). 7.32 Ray Moore including 8.27 Recing Bulletin and 8.45 Pause for Thought (S). 10.03 Jimmy Young (S). 12.15 pm Waggoners' Walk. 12.30 Pete Murray's Open House (S). 2.30 Devid Hamilton (S). 4.30 Waggoners' Walk. 4.45 Sports Desk. 4.47 John Dunn (S). 6.45 Sports Desk. 4.07 John Dunn (S). 6.45 Sports Desk. 7.02 Music from the Movies (S). 7.30 Alan Dell including 7.30 The Dance Band Days and 8.02 The Big Band Sound (S). 9.02 Humphrey Lyttalton with The Bost of Jazz on records (S). 9.35 Sports Dask. 10.02 The Monday Movie Quiz. 10.30 Star Sound. 11.02 Brian Matthew with Round Midnight Including 12.00 news. 2.02-5.00 am You and the Night and the Music (S). RADIO 3

Short (talk). 12.10 pm Midday Concert.
part 2: Sibelius (S). 1.00 News. 1.05
BBC Lunchtime Concert (S). 2.05
Music for Organ (S). 2.40 Matunee
Musicale (S). 3.40 New Records (S).
4.55 Bendstand (S). 5.25 Homeward
Bound (S). \$4.54 News. \$5.50 Homeward
Bound (S). \$4.55 News. \$5.50 Homeward
Bound. \$6.15 Ar Home: Richer
at Aldeburgh playa Mozart, Tchaikovsky.
Rechmaninov. 7.10 EBU Concert from
Vienna. part 1: Halhter. Scriabin (S).
8.15 On Producing plays in Russia
(interview with Peter James) 8.35
EBU Concert, part 2. Rimsky-Korsekov
(S). 9.10 Sound in Mind (S). 10.00
Brahms. Mozart, Schumann pano
recital (S). 11.05 Suk: Violin and
plano recital on record (S). 11.25 Jazz
in Britain: Travor Viatta Amalgam (S).
11.55-12.00 News.
VMF Only—6.00-7.00 am and 5.457.10 pm Open University. RADIO 4

5.00 am News Briefing, 6.10 Farming Week. 6.25 Shipping forecast. 5.30 Today Including 8.45 Prayer for the Day, 7.00, 8.00 Today's News, 7.30, 8.30 News headlines, 7.45 Thought for the Day, 8.36 The Week on 4, 8.45 James Cameron with the BBC Sound Archives. 9.00 News. 9.05 Start the Week with Richard Baker. 10.00 News. 10.05 Wildlife. 10.30 Daily Service. 10.45 Morning Story. 11.00 Reund the World in a Bustle. 11.45 Listen with Mother. 12.00 News. 12.02 pm You and Yours. 12.22 Brain of Britain 1979 (S1, 12.55 Weather: programme news 1.00 The World at One 1.40 The Archers. 1.55 Shipping forecast. 2.00 News. 2.02 Woman's Hour 3.00 News. 3.05 Afternoon Theatre (S1. RADIO 4

Royal Court

CAMDEN FESTIVAL

Round House

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Don Quixote by RONALD CRICHTON

en were member of This state of the property Neapolitan opera buffa of 1769 wind-and-brass band for Qui- it easier). was re-worked over two cen- xote's major flights of fancy. turies later by Hans Werner The Koeing ensemble, at the Henze for the summer festival Round House at least, is poked at Montepulciano. The public away in boles in Ralph Koltai's square of a Tuscan hill-town is otherwise ingenious set, the big a more sympathetic place than band. (from William Ellis the Round House and there the School) is up in the balcony. up-dating may have worked. In The contrast is effective and the Phoenix Opera's staging for the dove-tailing neatly done by the Camden Festival last week—the two conductors, Jan Latham-first "opera in the round" it Koenig (down) and Richard seems in these islands, and Hickman (up). Lord! what prospects that calls up—the joke turns heavy and goes on for too long. That is a knew.-With their aid Henze has her a six-eight solo in the first pity, for the music, or what one hears of it through the galumphing, is attractive.

Paisiello turned out opera like ice-cream, but he was a good confectioner, not to be style with bawdy oaths uttered own uninteresting love-afficirs) despised—his Barber of Seville in the wincing way English and the knight's ability to rise can still be heard with pleasure, opera singers use when they are in spite of Rossini, Henze seems to have worked on his original

Paisiello's Don Chischiotte, a main intrigue and an amateur orchestra (the balcony band has

The small ensemble includes instruments Paisiello never contrived some entertaining part, for them both a pretty duet accompaniments, though one or two of the percussion effects come round too often. Because of some up-country gentry to the producer Tom Hawkes has make sport of Quixote (in fact chosen a knockabout, jokey they spend more time on their trying to act like real comics, and their pranks. It hardly one has the uncomfortable feel-needed a theatre musician of fairly freely, re-composing it for ing of missing good things from Henze a chamber ensemble for the the half-submerged downstairs point.

Judging from the amount of ill-tuned singing, some of the performers also found it difficult to hear the small orchestra, Exceptions were the ever-reliable Kenneth Bowen as Quixote, Alan Opie a, Sancho Panza, Kate Flowers as tlarmosina and, when she was allowed to stand still and sing Alison Hargen as the Countries. Sancho and Carmosiona had the two most tuneful numbers-for towards the end of the opera-The story deals with the efforts they spend more time on their serenely if dottily above them Henze's calibre to make the



Teatro alla Scala, Milan

Mose and Boheme

by RONALD CRICHTON

An event of the present season one of the grandest of Rossini's serious operas, Mosé. This is the usual title for the Italian version of his Moise of Pharaon produced in Paris in 1827, a recomposition and expansion of the earlier Mose in Egitto given at Naples in 1818-Rossini revised the third act the following year, adding the work's most famous number, the Prayer "Dal tuo stellato soglio." Moise was his last opera but two. Only Le Comte Ory and Guillaume Tell were to follow. The Prayer apart, there are no single numbers which have become popular, yet the grandeur and mastery of this opera of choruses and ensembles has kept it in the repertory even

serious side was piipimal. The new Scala version is Moloe sung in Italian, revised (with one eye on the first Italian edition of the score) by Jesús López Cobos, who conducts the performances and is preparing a new critical edition of the score. Producer and designer are Luciano Damiani. The results have not provoked much enthusiasm, yet the production is not

vhen interest in Rossini's

a flasco-re-planning of the lighting and stronger all-round casting would make all the difference. In a discussion with Damiani printed in the programme Lopez Cobos claims that the version given is "almost" complete, but admits cutting ome repeats, mainly it seems for the benefit of the singers. This does not necessarily benefit Rossini, whose big structures become lop-sided.

Evgeny Nesterenko, the voice Barazzini for her strong top ever more imposing and richly notes, overlooking some illcoloured, dignified in his slow nuned manding the stage until the Osiride, Prayer in the last scene. The Egyptian team, vocally at least seated on a throne for much of as Pharaoh's wife Sinaide made accompanied sang Sinaide's music but

how in the opera house ear and eye interact. Mosè is much concerned with darkness, most of it summoned up by the protagonist. But stage dark-ness can be simulated without creating confusion—it doesn't Bukëme need follow-spots to make the younger singers' features clear enough to be recognisable. I am still not absolutely certain that I

the name given in the libretto at La Scala has been a revival of to the brother of Moses-though one tenor voice presumably belonging to Giampaolo Corradi street below, crowds on a terrace and the Café Momus on was lighter and more agile than the sound made by Vincenzo a lower level still-it is not easy Bello, who sang the heavier to reconcile the slow motion of (and very demanding) first the crowd with the pace of the tenor part of Pharach's son music. The third act, with the Aménophia, whose love for the harrier seen in sharp perspec-Jewish girl Anaide complicates the efforts of Moses to lead the slight rise in the snowy ground, Jews out of Egyptian captivity. is excellent.

This fundamental miscalcula-tion was the stranger for quality of Ileana Cotrubas as Damiani's professed intention to blimi could be foreseen, not howmake Nose more drama than ever the full poignancy of her oratorio (Rossini's description of last act, where the fading yet the original was azione tragico- beautifully poised line was so sacra) but what came out was perfectly matched by the con-precisely an oratorio, seen more-ductor's gift for intensity in over by emergency lighting. This extremely soft playing. Can was a pity because Damiani is a there have been a better Musetta was a pity because Damiani is a designer of great talent. Though than Lucia Popp since Welitsch? his use of a billowing white The middle voice is now as canopy-cloth above the acting big bear of a Rodolfo is the ideal area to symbolise the various plagues became monotonous, his complement to the Mimi of Cotrubas. The sympathetic quality sand-dunc sets, splendid but not gaudy costumes and elaborate of Cappuccilli's Marcello was a attributes (banners, thrones, surprise—he isn't often allowed a comic role. Nesterenko made a canopies) for Pharaoh and his court gave pleasure when they could be seen. The crossing of the Red Sea was effectively monaged with more billowing cloths, this time lower down.

The obscurity on stage no doubt added to the audience's irritation. The upper reaches of the house objected to the ballets (there was a clumsy device of blackouts to get the chorus off and on again) though they were competently done in choreography by Geoffrey Cauley. The gallery also gave the hird to poor Aménophis, gamely as he wrested with his Moses was the Russian bass applauded the Anaide of Maria smudging lower down. movements yet never fully com- Luigi Roni sang the priest completing

Pharaoh of Simon Estes, though stronger than their adversaries. The orchestral playing under the action, had more character. Lopez Cohos was clear, well-His lighter, more incisive sing- ordered and generally distining, told well against the other, guished yet short of majesty for Of the ladies only Julia Hamari things like the hig, brass much effect—her scene in Act Moses, "Eterno! immenso! 2 (the first two acts were done incomprensibil Dio!." Considerwithout a break, and very long ing the limitations of some of they seemed) was brilliant not the singers the big ensembles only for the relish and con-went pretty well, notably "Mi fidence with which Miss Hamari manca la voce" (full of Verdian premonitions) in Act 3 because during this scene she and the sunerb G minor introduction to the previous act with The production as a whole the snaky theme winding its was a curious demonstration of way through key after key. The Prayer in its cunning simplicity made the usual rousing effect.

The previous evening brought a chance of seeing the famous Zeffirelli production of La younger than the equally historic Visconti Don Corlos at Covent Garden), with Kleiber conducting and a cast difficult to correctly identified Elisero- better today. The staging has

worn well, though in the second-

act set-full height Parisian

house-fronts with a split-level

tive, disappearing behind a

beautiful as the top. Pavarotti's

baunting Russian romance out

of Colline's solo. Kleiber's

extremely but not intolerably

elastic conducting produced as

brilliantly expressive playing by

the Scala orchestra as an un-

forgettable Butterfly under de

Two singers win

Miriam Licette award

singing scholarship has been

awarded, for the first time, to

two singers, the Arts Council

has announced. They are Anna

King, 26, of West Hampstead,

annually to female singers

under the age of 30

advanced study in Paris.

Oxfordshire, and Mary

The scholarship is awarded

Marie Holrovd, 23,

London.

The £1,500 Miriam Licette

Sabata many years back.

ill-informed as it is ill-natured, learn something from the comgay, explorer (William Hoy, Rony Robinson's piece at the

Establishing this pattern appears to be all that the first act aims to do. The second act, set in our own time, also confines itself to setting a pattern, but it is a very different one. Edward, now played by Jim Hooper, lives with another

"You write so well, and have man of dubious fidelity. His so much learning." Richard sister Victoria Strauss said to Hindemith, "that Margolyes), who was only a doll I wonder you do not write in Act 1, is now married, but is music." I feel a similar emotion thinking of leaving her about Caryl Churchill. Cloud husband to go and work in Man-Nine is full of good lines and chester. She also leans towards effective little situations: but at a lesbian relationship with Lin the end of it I felt we had seen (Carole Hayman), a single, nothing more than an enjoyable parent with a tiresome daughter . exhibition of the splendid act- Cathy (Antony Sher), who vies ing of the Joint Stock Theatre with her in foulness of mouth.

Cloud Nine

by B. A. YOUNG

But here it is all over again, The play is in two distinct nothing but actual or potential halves. The first employs all switching of partners, the the current disparaging ideas sexual preferences being casual about the Colonial era. It is as in the extreme. Should we but neither characteristic parison of the two worlds? I matters much, since it takes the learnt nothing, I'm afraid. That form of a cartoon in which the Joint Stock Company is historical accuracy is not talented and versatile I knew essential. Clive, played by already, and that Max Staffordtalented and versatile I knew Antony Sher, is a Colonial Clark is a director of elegant archetype, and Betty (Jim talent, If the aim is to show, Hooper) his archetypal wife, as the theme song suggests; Their small son Edward (Julie that any kind of sexual union Covington) is different, how- may be blissful, this is old news ever: he plays with dolls and by now, and was indeed demonhas dirty secret games with strated rather more clearly in Harry Bagley, the great, but the simple unsophistication of Theatre Royal, Strauford, yesierday,

If this was not the aim, I am surry to have missed something that I have no doubt I should Monnwhile, I can at least repeat that the playing of the company, transexual or otherwise, is matchlessly good.



Julie Covington and Jim Hooper

Logan Hall Janet Baker by ELIZABETH FORBES

The Camden Festival drew to intellectual settings. The elfin a triumphant close on Saturday charm of the accompaniment to night with a recital given by "Nene Liebe" brilliantly evoked Heine's poem while in the familiar and well-loved "Auf Flügeln des Gesanges"— Janet Baker and Geoffrey the familiar and well-loved agony in the repeated cries of Parsons at the Logan Hall. "And Flügeln des Gesanges"— "Azaël! Why did you leave Rarely can artistry and dedica- also a setting of Helne-singer me? contrasted effectively with tion have been presented in and planist together achieved a the gentler emoti such pure, intense form. Many simplicity and directness of sohn and Fauré. singers treat an opening group of arise antiche merely as a means of warming up their own voices or of settling the audience's attention. Not so Dame Janet, who lavished all her interpretative skill on each and every item in the pro-

gramme and from the first note of the first song—Caldara's "Selve amiche"—held her listeners in the vice-like grip of her own concentration. Martini's tenderly regretful "Plaisir sorrowful love that Pergolest's 'Ogni pens" further explored. In the next group it was a

particular pleasure to hear several Lieder by Mendelssohn sung without a trace of condescension. The plane playing of Geoffrey Parsons contributed greatly to the enjoyment of displayed the splandid articula- shared by the bese accomplished if scarcely tion, both vocal and planistic, of capacity audience.

utterance entirely free from false naivety. In "Nachtlied" Dame Janet's exquisitely fine-spun line had the strength as well as the delicacy of silk. The more robust humours of "Hexenlied" were expressed in

In "Recontre" Dame Janet had

Lia's Air from the same com-poser's cantata L'Enfont prodigue, the feeling of passionate the gentler emotions of Alendels-Three songs Delius included the beautiful "Twitight

this rewarding partnership. With

Fancies," whose legendary spirit was echoed and intensifled by the last song in the recital, Stanford's setting of "La "Hexenited" were expressed in bell dame sans merci." Where appropriately full, resonant Delius and Björnson evoke an atmosphere of sad but harmless The second half of the pro- fanstasy, Stanford and Keats gramme began with "Poeme attain a frightening and keats dun Jour," Faure's setting of magic that was powerfully cond'un Jour." Fauré's setting of magic that was powerfully con-verses by Charles Grandmougin. veyed by the singer. Finally, to demonstrate her versatility. d'amour " established a mood of . not wholly regained the total Dame Janet gave two encores absorption that characterises her in styles quite different from singing, but "Toujours" and the poetic tone of her main programme; Mozart's "Allelula" songs in this miniature cycle, served to show off her tachcaught to perfection the elusive, nique; humour crept into the bitter-sweet dayour of a love hitherto serious proceedings affair over almost before it has with "I just love my voice," a begun. Debussy's "Mandoline" sentiment whole-h-artedly displayed the splandid articula- shared by the enthusiastic, whole-heartedly

enton House

Joseph Payne

This somewhat surreal recital ingly flip, with a smoothy tune even been properly stated. But was entirely devoted to contamand squareness of rhythm that I am wary of judging these
porary American harpsichord
owed nothing to the 18th cenpieces in the circumstances and
implied and was given by a player
tory and everything to HollyI am even more way of judging these
tory and everything to HollyI am even more way of judging these comments for his recordings of Bach's French Snites, now resesed in this country.

eemed illetesse, as well he night. His six pieces, repreentative of a lively interest which American composers have hown in the bright, percusvely-plucked possibilities of the resigned for a sophisticated reproduction instrument complete vith foot pedals, automatic gear change and overdrive (as irreverent practitioners are wont to call these helpful modern aids). But at Fenton House Mr. Payne was faced with a lumbering 1770 Shudi-Broadwood-possessing, it is true, two manuals and plenty of stop changes, but very hard to manhandle and by no means exactly in tune. Indeed Payne's own semi-improvisatory Outphalos was marked by a long silent tussle with a recalcitrant hand. stop which did not increase the piece's coherence. Most substantial was Daniel Pinkham's soberly winding Partits, a serious piece of profession. Too

motet by De Florentia seemed tuner in attendance? to be over before the motet had.

Mr. Payne from his performance Ann McMillan's April Episode on a harpsichord which became was a nicely astringent minia- progressively more unpleasant to ture, the world premier of listen to. Surely the Camden On this occasion Mr. Payne Robert Stern's Fantasia on a Festival could have afforded a

New Oxford dictionary

Paperback Dictionary, compiled phrase "swear like a trooper. by Joyce M. Hawkins, which in just under 800 pages, at £1.75, not confuse with 'trosper'.' gives information on 45.000 words and phrases. The words and phrases. The dictionary is designed, both editorially and typographically,

of an Oxford dictionary, it like "trousers" or practical way. If you look up pronunciation.

A new dictionary has been "trooper" for example, after added to the family of Oxford its two meanings (British and dictionaries. It is The Oxford American) you will find the and also a warning notes definition and the phrase reference again to "trooper" to be as easy to use as possible. also, in case you should be Besides carrying the authority tempted to pronounce "nouper"

Capital Radio to encourage drama

santry. Norman Dello Joio's made through the Greater works or studies in Greater Homage to Scarlatti was shock. London Arts Association London.

Under "trouper," besides the good trouper." comes a crosspresents its information in a there is a clear indication of its

In an attempt to encourage, (which, at the same time, is more drama for broadcasting, offering a similar prize for a Capital Radio is awarding a play for a small touring com-£750 prize to a new writer and pany to perform).

the chance of having a play on The awards are upon to anyserious piece of e foration. Too the chance of having a play on The awards are upon to any-much else was for-music pleathe air. The award is being one over the age of 15 who lives.

was brightly lit.

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FOOTBALL SY TREVOR BAILEY

Arsenal to Wembley with win over Wolves ARSENAL BEAT a sadly inept most popular pass was back to These two virtues count for Although young Gatting perthan creation; bread-and-butter much on the big occasion. It formed admirably within his football, with little butter and limitations and looks a fine no jam.

2-0 to reach Wembley for the second time in succession.

In last year's semi-final they outclassed Orient, who looked an indifferent Second Division team and played like one, while on this occasion it was easy to understand why Wolves are still in the relegation zone.

The Midlanders can consider themselves fortunate that there are so many indifferent First Division teams, because in a vintage season they would surely go down

The first 45 minutes were drab and seemed to last twice as long, containing those ingredients responsible for so many indifferent semi-finals.

The fear of defeat dominated everything else, with two four-man midfield formations more concerned with providing additional cover for their respective rearguards than support for the

two-man forward lines. The main attacking ploy was bley,

cent of the ideas, so that it half. came as no surprise when they

and effort proved a constant source of embarrassment for a suspect back four, deservedly gave his side the lead with a spectacular shot. Later his partner upfront, Sunderland, pounced on a defensive error to shoot under the advancing

The Gunners now have the opportunity to make amends, not for losing the final against Ipswich, but for the way they

Can they do it, even though Liverpool or Manchester United, will provide more formidable opposition? ·

The answer is an unqualified yes. The present Arsenal, although it may be little better It was full of frantic running, as a footballing combination hasty distribution and mistakes. than the one that froze at Wemdoes possess more the high punt upfield and the character and experience.

Even in that painful period enabled them to pull out that cent of the football and 90 per not quite clicking in the first

It also allowed them at Villa took control after the interval. Park to overcome the consider-Stapleton, whose skill, courage able handicap of being without their world-class international and main inspiration Liam Brady. The outstanding sides are not those who win when playing well, but those who still

win when not at their best. There are other omens in Arsenal's favour. Losing FA finalists who return in the following year have a good record of success.

Since the war Manchester United, Manchester City and Charlton Athietic have all their new opponents, either triumphed at their second attempt

Favourites also have had an recent years, falling, indeed, on the last three occasions. This time the Gunners are unlikely to be the fancied side.

the Gunners provided 80 per little extra when things were prospect for the future, he is not yet the class First Division then John Barnwell can rightly half-back he should become. Messrs. Neill and Howe have methods have been fully

to try to see their players avoid justified. injury, but at the same time they cannot afford to have them hold back in League matches.

about a losing sequence and undermine the existing high morale, especially as Liverpool will continue to churn out the semi-final, though it must be right results, Manchester United seem to have struck their best form, and both have exceptional opposition on the way, but it back-up squads.

The Barnwell and Barker combination which took control at Molineux in November, when the club appeared to be inexor-Second Division, have done a unhappy record at Wembley in splendid rescue job with limited playing resources.

deliberately and inevitably frugal, with the emphasis on The biggest threat to Arsenal's exploiting mistakes by the capturing the Cup could well be opposition and not giving the inclined to be impatient, do not their lack of high-quality cover. ball away themselves, rather expect an overnight miracle.

If his team avoids relegation,

claim that his rather dull In his brief, lucid and admir-

ably fair summing-up to the Press after the match, John This could so easily bring showed that he recognised the nced to rebuild next season. His present team may have been good enough to reach the

mentioned that they never encountered First Division was all too obvious on Saturday that they simply did not possess the class required to win honours in England and Europe.

It will probably take the ably heading down into the Barnwell-Barker partnership two, perhaps three years to bring real glory back to Wolverhampton, but this pair have the Their tactical policy has been ability and the determination to succeed.

It is to be hoped that the Midland supporters, who are

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Monday April 2 1979

Security is not enough

IT WOULD be impossible to Westminster may have been prove, and it is in any case not justified on the grounds that very likely, that the present the province is seriously under-outbreak of attacks by the Provisional IRA and other related other parts of the UK. But it leaking nuclear power station was widely seen as a device to buy Unionist support in order Ireland over the past year or so to keep the Government in the cooling system at the Three had been different. Acts such as the assassination of Mr. Airey Neave and the British Ambassador to The Hague, Sir Richard Sykes, appear to be those of people who are pursing violence for its own sake and who are not open to any kind of politi- one chooses to use-seems to cal argument. They are to be have been dropped.

utterly condemned.

In these circumst

Warnings

At the same time, however, It would be hard to maintain that British policy recently has been a conspicuous success. Mr. Roy Mason, the Secretary of State for Northern Ireland, deserves some credit for the way he helped to improve security and even to attract some economic investment to the province. Yet it has been clear for some months that the reduction in the level of violence has gone about as far as it can possibly go under present policies. Both police and army officers had been warning that the Provisional IRA had undergone a period of represnication and that It was preparing to strike more emeiontly and at a generaphically wider range of targets than in the past. In that sense, the events of the last few weeks are not entirely surprising.

There must also be some doubts about a policy which continues to pour money into illster without any economic Justification. The Kilroot power station, which will produce enormous excess capacity, is one Another is DeLorean car plant, which simply went to the bldder who was prepared to offer the highest mubile subsidy.

The tightening of security as practised by Mr. Mason was desirable in itself. There might the search for a political settle-also have been something more ment that takes account of the to be said for his policy of distributing financial largesse if it had been accompanied by the killing of Mr. Neave a political dimension. All too security will again have to be plainly, it was not. British tightened. But a security policy policy towards Ulster, especially alone is not enough. These must

power a little longer. It is also inexcusable that it should have contained no provision for proportional representation, despite the special Ulster circumstances. principle of "power-shar-or whatever similar term

In these circumstances, it is understandable that the Catholic community in Ulster should have become more isolated and more alienated. That is not to say that there is much support for the Provisional IRA and its offshoots. Indeed it is striking that one of the most moving tributes to Mr. Neave came from Mr. Gerry Fitt, the sole representative at Westminster of the Social and Democratic Labour Party. But it is to say that there is a dangerous political vacuum in which support for the IRA could yet

No government is more aware of this than that of the Irish Republic. For ultimately the IRA threat to Dublin is greater than it is to the British main-land. In Britain the violence can be almost certainly contained, though at a price, but in the Republic it is a poten-tial threat to the very system. That is why Irish governments no longer seem to condone IRA activities. Their co-operation with the British authorities in security matters is now almost longer any official demand for the withdrawal of British troops from Ulster.

Objective

Yet there remains one element in the Irish position that the British Government has recently overlooked. It is that Catholic community in Ulster should not be forgotten. After in the last few months, has been also be a political objective. Characterised by an apparent That will be a major task of readiness to lean towards the the next British government by Unionists at the expense of the Catholics. The Bill to increase even if it means going back to the number of Ulster MPs at Sunningdale.

Wall Street at the end of last week. The accident was triggered in the early hours of last Wednesday by a faulty pump and made worse by human error when an emerkency cooling system was

A temporary price freeze

British Minister of Agriculture, has been claiming a good deal of credit for the outcome of last three-mouth price freeze may week's farm price talks in sound impressive from election Brussels. It is not clear, however, that the result was all that has actually been achieved, it much of a triumph, either for is not at all obvious that the Britain or for the Community

It is true that Mr. Silkin or for Britain. argued, with admirable persistence, in favour of the Commission's proposal that there should be a general freeze of the notional "common" prices, but it would be an illusion to suppose that his arguments have won over his opponents in other member states. If in practice there will be a price freeze for at least three months, this is not because the Nine positively agreed, but only because they remained deadlocked, and had little option but to extend the current price regime.

Doggedness

The defeat of the British Government and the imminence of the election campaign ruled out the convening of another farm ministers' Council in the near future, and the earliest that negotiations resume again will be the middle of May. Since no-one expected agreement to be reached at the first or even the second session of the new round, it seemed prudent to assume that current prices would have to remain in force until the end of June. Mr. Silkin by his doggedness. and the government by its defeat in the House of Commons, have certainly delayed any increase in the "common price levels. But it would be premature to assume that the principle of a price freeze has made substantial headway in the Council of Ministers.

The other side of the coin. of course, is that the deadlock over prices also included a deadlock over the Commission's proposals for new taxes on milk production. These taxes cannot now be imposed, on the best hypothesis, until September

It is a safe bet, therefore, that the milk surplus, which is already pre-eminent among the expensive scandals of the common agricultural policy, will become even larger and more expensive this year. Last year milk cost the Community and preliminary esti- frontation.

AS WAS ONLY to be expected mates suggest this year's bill in the run-up to the general may reach £2.5bn. Few British election, Mr. John Silkin, the voters will ever have heard of the Commission's milk tax proposais, and claims of a platforms. But in terms of what is not at all obvious that the bargain comes out on the plus side, either for the Community

The doubts are particularly acute in the case of Britain's national interest, since the cost of the surplus of milk (as of other products) falls more heavily on the British taxpayer than on his continental counterparts. As it is, Britain is already, we now learn, the biggest net contributor to the Community budget, and the bill is expected to rise, despite the fact that it is one of the poorer Community countries.

None of this should be taken

as decrying the principle of a freeze on the "common" prices; on the contrary. We have long argued that the Community's farm price levels are far too high—that is why they lead to the production of unsaleable surpluses—and should be brought down. Taken in isolation, a reduction in price levels is almost certainly unattainable on political grounds, so the next best thing is a price freeze on surplus products.

Compromise

In that sense the only positive decision which did emerge from the Council-the devaluation of the British, French, Italian and Irish "green" currencies—was a tolerable compromise with reality. Farmers in these countries will get a small increase in prices (though still less than the rate of inflation), while German farmers, whose prices are already for the highest in

the Community, get no increase. The trouble with the Silkin approach is that, by its exclusive concentration on the electorally appealing slogan of a price freeze, it has prevented substantive negotiation on other less dramatic measures which could have played a useful part in curbing surpluses and reforming farm structures in Any reform of the Europe. farm policy is bound to be a slow process, and it is bound to be more complicated than Mr. Silkin's plan for a four-year intervention buying of surplus price freeze. The name of the game is negotiation, not con-

A major setback to U.S. nuclear power

By David Lascelles in New York and David Buchan in Washington

watching and waiting while engineers grappled with the country's worst nuclear accident to date—a crippled and

the cooling system at the Three Mile Island plant in the Susquehanna River had failed and radioactive steam had spewed into the atmosphere, it was still not clear how the emergency would end. Pressure and temperature in the damaged reactor core were high. Nobody could get near because of escaped radiation. It will probably not be possible to approach it before tomorrow or Wednes-

Danger likely to recede

Although the reactor was stable, the cooling process was complicated by the presence in the core of a steam and hydrogen bubble. Officials feared it could force out cooling water as pressure was reduced and expose the fuel rods or explode itself.

It appeared though that the worst catastrophe, reactor melt down-which officials of the Nuclear Regulatory Commission said earlier could not be ruled out-was unlikely and that the danger was receding as time passed. Even if the emergency ends

in the next few days, and the thousands of people who fled the area return safely to their homes, the incident is little short of a disaster for the cause of nuclear power. The case for it had just begun to regain momentum because of fuel shortages caused by the Iranian crisis. The repercussions of what happened at Three Mile Island may well spread to other countries engaged in the nuclear debate.

It is the second nuclear story to reach the headlines in two weeks. In mid-March, five atomic power stations were shut down because of faulty design. Not surprisingly, shares of nuclear companies slumped on Wall Street at the end of last

emergency cooling system was mistakenly turned off, overheating the core for a time. Subsequently some of the water which had leaked on to the reactor floor was mistakenly piped to an auxiliary building which had no radition filters. What was originally presented as a minor accident escalated in the next two days as complications developed with cooling, and radioactive steam escaped from the containment building. By Friday, the Governor of Pennsylvania, advised pregnant

MERICA HAS gone women and young children in through a tense weekend the immediate area to leave and people within 10 miles of the power station to close their doors and windows. Schools within a five-mile radius were closed. By Saturday, thousands more had left the neighbouring towns, leaving them ghost-like and empty and prompting the authorities to declare a curfew to prevent looting.

President Jimmy Carter issued a statement urging Pennsylvania officials to "err on the side of safety and caution" and opened up a hot line from the site to the White House. Ironically, he was cloistered away preparing a major statement on energy policy for later this week Public reaction at all levels was swift and sharp. Dozens of anti-nuclear protestors descended on the area with their banners and leaflets, and in Washington, Congressional leaders were outspoken in their criticism.

The Senate majority leader, Mr. Robert Byrd, said the accident had shattered people's faith in nuclear power. Senator Edward Kennedy wrote to Dr. James Schlesinger, the Energy Secretary (who was still valiantly defending the long-term safety record of nuclear power) that "it was more important to build these plants safely than to build them quickly." Senator Henry Jackson, Chairman of the Senate Energy Committee, perhaps the single most influential figure on energy policy and not an outright opponent of nuclear power, said the accident would hurt the nuclear programme and leave it in "semi-limbo."

Many of the statements may have been hasty responses to an atmosphere of crisis, but the fact remains that the accident could hardly have come at a more critical time for all those involved on either side in the nuclear debate, which means most of the country. The timing is also ironic given the recent release of the China Syndrome, a highly publicised film starring Miss Jane Fonda about an uncapply prescient crisis at a Californian nuclear power plant. It contains the line that a nuclear accident would render permanently uninhabitable an area " the size of Pennsylvania."

Growing energy problems

For the backers of nuclear power all of this is most unfortunate, since the accident happened just as the country's mounting energy problems might well have brought about a shift of public and congressional opinion on to their side.

There have been a few straws in the wind in recent months. The environmental lobby, long the major rallying point of nuclear opponents, has been weakened somewhat by the prowing awareness that coal must be mined, refineries built, The reactor: British interest: Previous accidents

Three Mile Island 2 is a newly-completed 880 MW pressurised water reactor (PWR) built by the U.S. company Babcock and Wilcox. It was still being commissioned when the accident happened. Its owners, Metropolitan Edison, have operated a slightly smaller (800 MW) reactor of the same kind and make

since 1974.

There are more commercial PWHs operating in the world today than all other types of reactor combined. Of a total of 523 commercial reactors operating, under construction or ordered throughout the world, 283 are of this type. It is the reactor used in abmarines, including British nuclear submarines. British is currently building a PWR in Stolland for the navy to use in demonstration and training.

The Babcock and Wilcox reactor is one of four designs—three American one German—being evaluated by the British Central Electricity Generating Board, with a view to ordering a commercial demonstration plant in Britain in the early 1980s. The am of this demonstration would be to see whether this type of reactor holds significant advantages for the electricity supply industry over British designs of gas-cooled reactor. The EWR, with its water cooling, is a more compact reactor—hence its use in submarines. But the most oppious advantage for British annears to lia hence its use in submarines. But the most obvious advantage for Britain appears to lie in the fact that much more of the PWR can be prefabricated in the factory than is the case with British designs.

The most obvious disadvantage.

The most obvious disadvantage seems to he that, should an accident occur events happen more swiftly than with the UE designs, which allow hours instead of millutes for

A melt down is the worst kind of accident which can happen to a nuclear reactor. It is the melting of the nuclear fuel when the

vagaries of foreign oil suppliers

to clear the way for more nuclear power in the form of

Bills to speed up licensing and

proposals to approve reactor designs on a standard rather

All these shifts had yet to

combine into a major pro-nuclear movement. But senior

than plant-by-plant basis.

cooling liquid or gas fails to remove quickly enough the heat that is generated by nuclear

reaction Britain has suffered two melt-downs in gas-cooled reactors. The first occurred at Windscale in 1957, when many tons of uranium fuel caught fire and burned furiously for 24 hours. In that case the reactor had no enveloping pressure vessel to help seal in the radioactivity. Radioactive vapours escaped from the plant, but radiation levels did not exceed the maximum permitted by inter-

national regulations. national regulations.

The subsequent inquiry by the Medical Research Council concluded that it was "satisfied that it is in the highest degree unlikely that any harm has been done to the health of anybody, whether a worker in the Windscale plant or a member of the general public."

The second melt-down occurred at the Chapeleross nuclear power station, in a 55 MW reactor. No radiation was released, although the reactor was seriously damaged. Unlike Windscale, the reactor was repaired and operating again a year later. Damage caused by a similar accident in a much bigger gascooled reactor in France in 1969 was also

The most dangerous substance likely to be released in any nuclear accident is radioactive lodine. More than 1,000 times as much was released in the Windscale accident as any other radioactive substance. A serious accident at a British nuclear plant would swiftly bring policemen to the doorsteps of those living nearby downwind of the plant, dispensing pills of an iodine compound. By taking these pills, people would saturate their bodies' needs for iodine and reduce the risk of their absorbing any radioactive iodine from the air.

be borne by other fuels. Only coal and uranium offer any longwas demonstrated by the recent term prospects. Uranium has shutting off of Iranian oil. In the adjuntage over coal that it power. However, the fate of nuclear power has always hinged on the question of safety. That is why the Three Mile Island incident Congress, there had been moves is easier to mine and produces to clear the way for more electricity more cheaply. On a nuclear power in the form of cost acide where unatium is 15, The I nuclear engineering

industry believes it could instal enough nuclear power capacity by the end of this century to nuclear movement. But senior save about 18m barrels of oil a officials at the Department of Energy were saying at the beginning of March that they felt that anti-nuclear sentiment would be able to produce the had lost some of its edge, and they the moment might some beginning of as the produce the new generation of fast "breeder" that the moment might some be that the moment might soon be reactors on a commercial basis ripe for a major policy state early is the 21st century.

coal is 20, and oil 40.

However, the environmental At the moment, the U.S. has just over 70 nuclear power stations generating 13 per cent but oil is growing yearly, despite the Currently 129 power stations start-up of Alaskan production. are under construction or other-Unless domestic fuel sources are wise in the pipeline. They will developed quickly, the country all he completed by the midcould be importing well over 1983. Begause of the long lead time, more orders will have to half of its total oil needs by the next decade.

With the prospects for domestic oil and gas production until to be maintained. Not surpriscertain because of the high cost ingly the industry is concerned of exploration and the near with the threat of recession and

and power generated if the exhaution of many available unemployment once the orders country is to keep going. How fields the burden will have to on its books are completed and vulnerable the U.S. is to the belone by other fuels. Only it has been mounting a powerful lobby in favour of more nuclear

> will be so damaging, even though the only victims so far are four workers who have been treated for mild exposure to radiation. But the question has become so tangled in the heat of debate that few can view itunemotionally.

No nuclear deaths

Since nuclear power for lobby combined with uncom-mic digumstances had all way after the last war, there stitled nuclear power has not been a single death in iopuent by the end of the U.S. from an accident at a of its electricity and saving it 1.6m barrels of oil imports daily, worth at today's prices about 31bn a year. However, the dependence of the U.S. on foreign oil is growing yearly, despite the conditions and the conditions are stations and been cancelled or postponed. Last year only two one person a year dies from gas not been a single death in the U.S. from an accident at a condition of the U.S. from a c explosive power runs through the mains in a day than was contained in the Hiroshima U.S. nuclear insurers have

paid out less than \$1m in claims since 1957, the year such insurance started.

But as a close observer of the debate remarked "for most people nuclear risks are still in

the realm of witchcraft." This was borne out by a recent finding by the Roper Organisation. a public opinion research company, that 48 per cent of the population did not understand what nuclear power was all about. Given that people are reluctant to confess to ignorance, that result is held to under-represent the extent of existing ignorance.

But if the public is confused the likely effect of Three Mile Island is clearer on Congress, in whose hands the future of nuclear power probably lies. Senator Jackson and his energy committee had been working towards greater acceptance of the need for nuclear energy. In fact the debate among its members assumed that nuclear power would go ahead and concentrated more on details such as how spent fuel should be transported and whether fast breeders should be cooled by gas or sodium.

Doubts on new initiative ...

However, judging by the immediate reaction of Congressmen to the accident any pronuclear initiative now must be under a cloud. There has been a succession of calls from Capitol Hill for closer monitoring and control of the nuclear power industry and suggestions that the burden of future energy development must be shifted from nuclear power to coal. The Chairman of the Senate

sub-committee on nuclear regulation, Mr. Gary Hart, who visited the strickened reactor with his staff last week, said he would introduce legislation requiring the federal Government to monitor reactors, and: assume full control immediately in the event of a crisis.

At Three Mile Island, the Pennsylvania State anthorities: the plant management, and the Nuclear Regulatory Commission a federal agency, have all been involved, at times cutting acros each other.

Representative Morris Udali has called his House Energy and Environmental sub-con-mittee into session to taktestimony from the nuclear regulatory commission—whos

own role is bound to come unde scripting because of the crist Mr. Carter, who has neve been an enthusiastic supports of nuclear power, may claborat his own position on the subject in his energy statement the week. So far, he has only said that the accident points to the need to review safety standards a procedure which itself coulc

take years.

therefore seems It unless the Three Mile Island emergency can be resolve quickly—which seems unlike
—and also safely, the cau
of nuclear power will ha
been set back by very mai years—with possible grave co sequences to U.S. energy poli for the rest of the century.

The timing of

a political novel There is a grimly prophetic quality about The Ballot, a novel due to be published on

April 30, three days before the general election. Written by Rowland Summerscales, a retired Lobby correspondent, it describes a power struggle inside the Labour Party after Parliament has been dissolved and an election campaign is imminent. So the timing by the publisher, Robert Hale, is in itself remarkable enough. But one of the central incidents in the story is a political assas-sination by the Provisional IRA, by means of a car bomb.

I spoke yesterday to Summerscales, who was in the Westminster press corps for more than a quarter of a century-he is now 66. "The death of Airey Neave shocked me very much," he said. "But it did not surprise me. I have always regarded it as obvious that the IRA would sooner or later try

to kill a leading politician."

Summerscales finished off the first draft of his novel 18 months ago. Although he has written four previous political thrillers under a pseudonym, it is 10 years since his last book appeared.

Big bounce

Within a few years, company executives in far-flung offices will be talking to one another by private TV links. At least, that is the forecast of Sid Topol, who is in the business of pro-viding "earth stations"—giving access to satellite broadcasting -at costs he claims even individuals can now afford.

Topol has just been London. briefing investors Scientific-Atlanta, of which he is president. The corporation, which has passed the \$100m annual turnover mark, was started by six professors from Georgia Tech with 100 dollars When radar physicist Topol

were \$16m a year. But the profs tended to do whatever took their fancy. So he paid \$2,000 a day to financial consultants and they steered him towards low-cost earth stations: he has now sold 650 and is mass-producing them at more than 80 a month.

He has his eyes at the moment on America's estimated 300,000 dollar millionaires. Most have ranches, he says, and even now they could be tapping at least 15 satellite TV stations.

Given the nature of most U.S. television, that may seem a curious way to enjoy your wealth. But Topol is not con-cerned with the ends of his technology, but the means. As one of the bankers listening to him at the weekend remarked: "It's a bit bewildering—all those gigahertz."

Blood and tar

With so much to worry about over the "Muldergate" scandals. South Africa's rulers are hoping that an intensely domestic quarrel will not cause new divisions among their followers. This is the public tarring and feathering of Professor Floris van Jaarsveld, most distinguished of Afrikaner

He was attacked on the platform of a theological conference organised by the University of South Africa. Leading the gang, which calls itself the Afrikaner Resistance Movement, was a former police bodyguard of State President John Vorster. The "crime" of Professor

van Jaarsveld is to have suggested that South Africa should rethink its annual celebrations of the Day of the Covenant, which marks the Afrikaner victory over the Zulus at Blood River in 1838. He says that for some of the country's people the celebrations are an insult. The University has laid charges against the group which organised the tarring and feathering. But there has been no sign of police action.



"Ever since Edge Hill, I keep getting calls from MPs in every sort of marginal,"

with remarkable aplomb, even trying to continue his 75-page learned dissertation. When one of the attackers tore off his jacket, he helped him with the buttons. "It was my best suit, however," he admitted The Afrikaner Resistance Movement justifies the tarring

and feathering by saying that it was a defence of "everything that is sacred" that is sacred" against the desecrations of "dissipated academics and false prophets who hide under the mantle of learning."

Yet van Jaarsveld is the author of a standard school history textbook which Englishspeaking critics have con-demned as "blatant Nationalist propaganda."

On her heels

Mrs. Thatcher will not merely be contending with her political opponents in the weeks ahead: she will also have to face up to the fashion writers. I gather that several of the popular papers have already decided to assign women reporters to the Tory leader—to keep the public The professor took the assault closely informed on her clothes,

make-up Jand feminine demean ur at the hustings, The sartorial side of electioneering is treated in a decidedly male chauvenist way, however, in a guide just re-leased by the Clothing Manufacturers' Federation, the Shirt Manufacturers' Federation — and even the Tie Manufacturers' Association It tells how to score on TV, offering such gems as the need to avoid shirts with frayed or soiled only a state of the second shirts with frayed or soiled and the second shirts with frayed or soiled the second shirts with frayed or soiled shirts with frayed or soiled shirts with frayed or soiled shirts with second shirts with second shirts with shirts with second shirts with s collars, creased suits which look as if they have been slept in, and odd socks or shabby shoes. It says that a down candidate may turn a "dor know" into a firm "no." But nerhaps the voters will be so sated with the accounts Mrs. Thatcher's style that

the men will be able to stay as unkempt as ever, just letting the message speak for itself.

Withy workers

Volunteers stepped in at the weekend to help preserve Britain's ancient craft of basket-making. It has lately been brought almost to a halt by a lack of the pasic materials; so the volunteers went to cut withies—as the branches are called-at Saxilby in Lincolnshire. The owner of the willow holt, or copse, is Charles Leggitt, a basket-maker all his life. But he is, now too old to do the work.

Mrs. Catherine Wilson, keeper of the Musuein of Lincolnshire Life, led the volunteers. She says: "The skill of growing willow for basket-making is fast dying out. The holt had not been cut for three or four

years." The willow will be distributed to basket-makers who cannot at present get supplies.

Lost touch

The following announcement recently appeared in a Colorado newspaper: "Owing to unfore-seen circumstances our daily horoscope has been suspended."

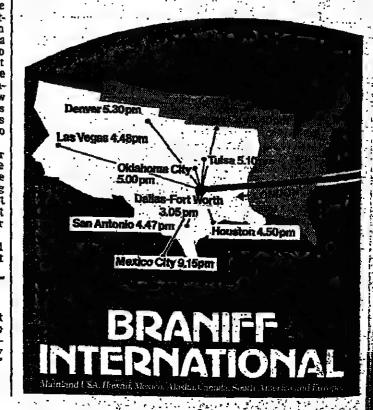
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South Korea

South Korea's economic growth during the past decade has been spectacular, particularly since a high proportion of GNP still has to be spent on defence. The country's first "industrial revolution"-based on cheap labour-is no w coming to a close, and the economy is moving towards a greater emphasis on heavy industry. Meanwhile the authoritarian system of government continues to be a source of

goes on By Charles Smith Far-East Editor

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mediate

THE LATE President Sukarno of Indonesia once described the last year in which his shaky regime held power in Djakaria as "the Year of Living Danger-ously." For South Korea, olisty. For south korea, practically every year since the postwar partition of the Korean Peninsula has been a year of living dangerously, but the experience seems to have been invigorating.

South Korea lives in the shadow of one of the largest

-concentrations - of - military power on earth (quite a large portion of which consists of its s own highly trained and heavily armed forces) but has still managed to build one of the most dynamic peacetime economies to be found anywhere in the world. In the years since the 1978 oil crisis (when most other nations suffered drastic racessions, or at least breaks, in their rate of economic growth) Korea's GNP continued to forge a ahead (at the cost, admittedly wary nearly being forced to

annet Korea in with textiles providing a basic export industries. The second half of the last year, after years of uninterrupted expansion. Prices went up, officially, by 14.4 per cent impressive, examples to be found anywhere of what is coming to be known as a "new industrial economy"—in other words, a nation which has moved from undeveloped to almost developed status in the very, recent past and which seems destined soon to challenge the country.

**Addition and the electronics solution to this problem is to industry (and to lesser extent the newer heavy industries such as shipbuilding and machinery) sophisticated sectors: the question now seem to have recarded the "cream." They now seem to have reached the contents are from Korea's main the point, however, where resistence another four per cent increase in the first two months of 1978. seems destined soon to challenge the fully developed nations. The average Korean citizen of 1978 bear (in current prices) and can expect (if long-term Government projections turn out to be anywhere near accurate) to be four times richer again by the early 1990s.

It all seems too good to be true to western onlookers who have become accustomed to agonisingly slow growth rates and to the apparently insoluble dated industrial structures. Yet Korea's high growth rate has brought its own problems, and some of them seem recently to have become fairly acute. It may not be too much to suggest that after a decade in which the GNP has seldom expanded by less than 10 per cent per year, the nation has now reached a major economic turning point.

A turning point can mean

Tackling the inflation problem was approximately 18 times has meant not only using the better off than his 1960 fore- Government's sweeping price Government's sweeping price control powers to the mill (as currently being down) but deliberately reducing the economy's growth rate through the imposition of tight money. The target is 9.5 per cent for 1978, but some observers think the economy may continue to gallop ahead at a faster pace however strongly the govern-ment applies the brakes.) Dealing with inflation also means imposing severe controls on the amount of foreign exchange that Korean emporters may bring into the country (because too much foreign exchange might produce a dangerous impact on the domestic money circulation).

If one section of the Government sees Korea at a turning point in terms of domestic policy, another focuses mainly on the cross-A turning point can mean focuses mainly on the crossdifferent things to different roads that the country seems to have reached in foreign trade.

Korean exports grew by 40 per cent per year from 1982 (when they were a spectacularly low suprems control over most suprems control over most spects of the Korean exports grew by 40 per cent per year from 1982 (when they were a spectacularly low suprems control over most they were a spectacularly low suprems to the time has mark. Exports consisted (and continue to consist) largely of

The Ministry of Commerce and Industry, which has the unenviable task of seeing that export targets are met, admits that the amount of ingenuity required to do this is a good deal greater today than it was a few years ago. What is going to be needed in future is not ingenuity but a fairly radical change in the make-up of Korean exports, with the emphasis shifting from "vulnerable sectors like textiles to the heavy and more sophisti-cated products where Korea thinks barriers in world trade barriers may continue to be less

formidable.

The switch from light lodustry to heavy industry and from labour-intensive to technology - intensive products makes sense from another point of view as well. Korean labour, once possibly the cheapest to be found in any Asian country where industrialisation was seriously under way, is no longer particularly cheap by regional standards—a fact which is hardly surprising after several years of consecutive 25 per cent wage increases.

Korea's cost effectiveness according Government

which began to afflict Korea in with textiles providing a basic export industries. The domestic factor, The economy begin to consider the terms on the second half of the last year. foundation and the electronics solution to this problem is to has become more complex after

observers (such as foreign bankers) obviously doubt, attention will shift to one other major problem which could (but it is hoped will not i block longterm economic growth prospects. Korea, like Japan, is a resource-poor country, with almost nothing to boast of in the way of domestic mineral deposits, apart from rapidly depleting supplies of low quality

Competing

To keep up with the 10 per cent rate of growth envisaged for the economy up to 1990 (which in turn is claimed to be necessitated by a 3 per cent annual growth of the labour force. Korea will have to take its place as one of the world's large importers of raw materials, competing with though naturally not equalling, the requirements of Japan and other top industrial countries. To acquire such raw materials may be possible but it will require more careful planning than Korea has put in up to now.

In tackling the new series of problems which seem likely to face it during the first half of years of rapid expansion and ran no longer be managed by a and dedicated government planthe first decade and a half or so of industrialisation.

the hands of the newly emerg-ing big business groups (with names like Hyundai, Daewoo and Sameung) than with the Economic Planning Board during the next five to ten years of economie development. however, he in the hands of very much the same types of people as before: in other words sucressful management of the economy will depend on clever, highly educated young execu-tives who will from now be working mainly within the private sector and to a lesser extent for the Government.

What no one seriously doubts, as the country contemplates the various options ahead of it today, is that Korea must continue to grow, and must eventually challenge advanced western countries (including Japan) in some of their current economic "strongholds." The rationale for Korean growth is so simple that it is sometimes not believed, but it makes sense to everyone who has spent long enough in Seoul to appreciate the inten-sity of the South's struggle for power and influence versus the South Korea is engaged in a

race to best North Korea in terms of economic potential (and ultimately also in terms of military capacity) in preparation for the no doubt far off day when the current freeze on North-South relations ends and

which reunification might ultimately occur. The race was a more desperate affair in the was predominantly agricultural and the North was already highly industrialised. It is still seen, however, as a matter of life or death—at least by the who control the economy and make the decisions that

Whether the northern challenge also means that Korea has continue to operate current highly authoritarian system of government is a more controversial question, and one on which a fairly deep (if publicly suppressed) cleavage of opinion exists within the country. Supporters of the "Korean style of democracy" upheld by President Park Chung Hee (including quite a few politicians who technically belong on the opposite side of the National Assembly) claim that Korea cannot afford political turmoil while the North stands ready to "meddle" in the affairs of the South. It is also said that western-style democracy is not necessarily wholly suited to a society with strong Confucian traditions.

President Park's critics (who are to be found, most vocally among the university intelligentsia and in Korea's large effect of the system has been to

will no doubt continue to rage (and to be reflected out-side the country in debates on highly disciplined and dynamic figally come to do something continue to consist) largely of sources is now less than that of the 1980s Korea will have to North-South relations ends and side the country in debates on highly disciplined and about the minarian simple manufactured goods. Taiwan, its principal rival in take account of one major the two halves of the country such questions as whether or society that it is today.

CONTENTS Politics North-South relations The Economy U.S. relations Links with Japan Trading companies Banking VI Energy VII VIII Agriculture Foreign investment Industry Textiles Motors

Shipping and Shipbuilding XII

Electronics

Construction

not the United States should maintain a military presence on the peninsula). What they the peninsula). seem unlikely to do is to change the actual political climate of the country-at least for as long as President Park and his colleagues remain in power. At 61, and with 18 years Park is not exactly a newcomer. Christian community) say that, but he is probably also a good while all this may be true, the many years away from retire-Only after his withsatisfy the taste of a particular drawal from the scene (and set of men for staying in power.

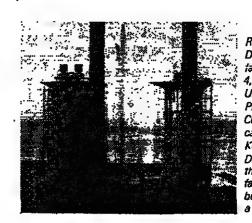
The arguments in favour of in the Northern leadership) is or less democracy in there any real likelihood that

through technical cooperation



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Politics

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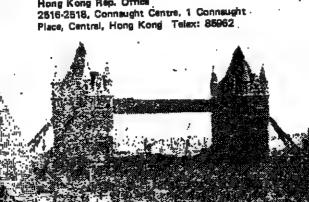
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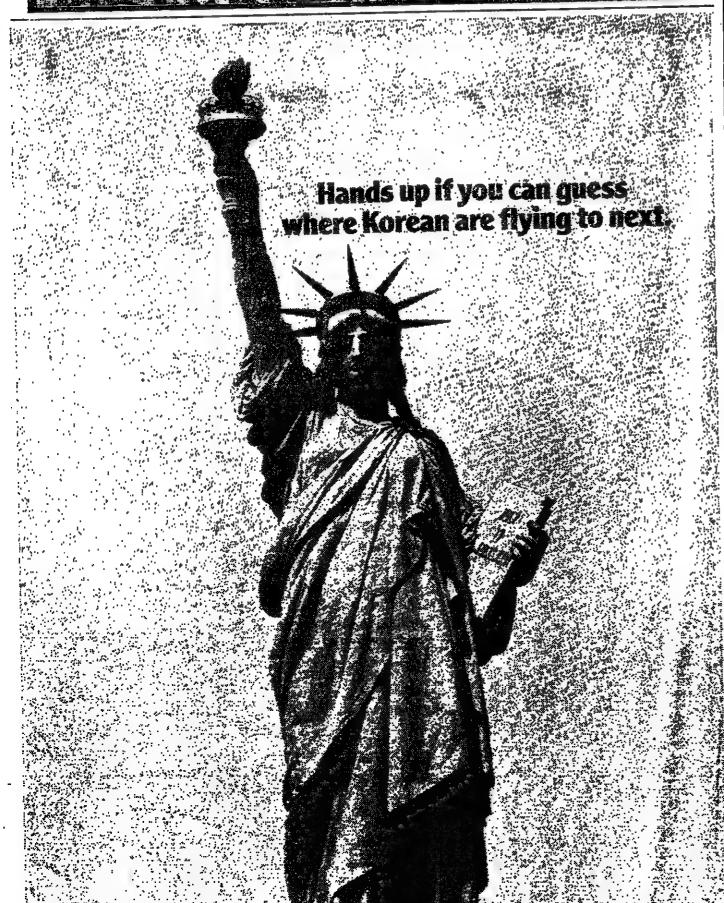
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Uneasy democracy

SOUTH KOREA'S political system has evolved from democratic instability in the early 1960s to what President Park Chung Hee calls "Koreanstyle" democracy. In the process individual freedoms have been whittled down and the Government's hold on power has been gradually but steadily strengthened.

The system has come in for widespread criticism in the U.S., where the fact that U.S. troops are stationed in South Korea to protect a "free" political system makes President Park's authoritarian style of government an obvious target.

At home, the Government

has been able to make a good case for the view that a firm hand is needed to produce economic growth and ward off the northern "menace," Even the northern "menace," Even so, the legitimacy of Korea's claim to be a fully democratic society remains a sensitive issue. The electoral system is one area in which South Korea departs considerably from Western democratic models.

The main legislative body is the National Assembly, two-thirds of whose members are elected by popular vote at six-yearly intervals.

The remaining third of Assembly members, however (the so-called Yujeong-hoe or political fraternity for the revitalising reform), are nominated by the President of the republic and then "elected" by a non-political electoral college whose membership requirements ensure a total noninvolvement in politics.

The same body, known as the National Conference for Unification, also elects the president, who holds office for six years. One individual can be elected to an indefinite number of presidential terms and President Park Chung Hee (who originally took power in a 1961 military coup) has just been elected to his fourth term of

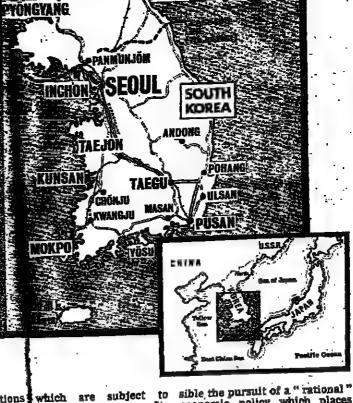
Criticism

Another instance of diminished democratic freedoms is the fact that human rights, while theoretically guaranteed, are in practice in a state of suspense. This is because of the so-called Emergency Measure Number Nine intro-duced in 1975 which forbids criticism of the country's existing constitution (the so-called Yushin, or revitalising reform, constitution which was introduced by referendum in 1972 and which instituted the indirect system of presidential election).

leasure Number Nine can be arrested without warrant, as can violators of the older anticommunist law which forbids any form of pro-communist or "fellow travelling" activity within a fairly wide range of

estimated that about 200 people are in detention, leaving aside of the system is that South "short-term" detainees who korea cannot afford "political may be called in for a few turmoil" while it continues to hours of questioning. Political face a hostile North Korea prisoners are not known to be although physical maltreatment of prisoners may have occurred in the past.

Korea operates through an informal system of "selfinformal system of censorship" by new editors, except in the case of a



tions which are subject to direct screening by censors. Its effect is to ensure that newsecho the official line closely on political or policy issues and to foreig mute priticism of some of the controversial aspects of

overnment's

economic

more

policy al respect in which South democracy differs from Korea democratic Western is in the absence of the committy are on a national for the two-thirds of the level, Assembly seats which are not presidential nominaelected local government is to

economic policy which places national interests.

Regional interests are claimed to have interfered seriously with economic policy-making before the institution of the nomination system in 1972.

The main argument against regident Park's "Korean-President Park's style" democracy is that the system seems to have served to perpetuate rule by the same individual, given elected local government. The individuals or individual, given only papular elections held in that the president bimself apparently exercises direct personal influence over a wide range of government decisions. The government's monopoly

partial substitute for of contacts with North Korea is another controversial result

PARTY STRENGTHS IN THE NATIONAL ASSEMBLY

	Numb seats		Percen		
emocratic Republican Party ew Democratic Party emocratic Unification Party edependents ujeong-floe otal	1978 73 61 3 22 77	1978 68 52 3 18 -73	 1978 31.7 32.8 7.4 28.1	1973 38.3 32.7 10.3 18.7	

found in the Saemaul of the system, though one that stability. Undone (New Community)
movement whose leaders are chosen by "consensus" at village (or factory) level.

offered by the government for withholding full freedoms is that Western-style

Press censorship in South newspaper handful of dissident publicademocratic affairs.

second point made by defenders apparently dedicated to reunification of the country by force. The introduction of an apparently permanent government majority into the national

assembly (based on the onethird of the seats filled by presidential nomination plus those held by the pro-government Democratic Republican Party) is claimed to have made pos-

Community) can be justified by the claim of channels for dealing with Pyongyang would simply The fundamental justification increase the north's ability to "meddle" in South Korea's Yet another result has been

to enable the government to democratic forms are not to enable the government to appropriate for a country determine very precisely who The government does not spropriate for a country determine very precisely who builts figures for the number of political detainees under these regulations but it is development from the West of the extremely rapid improvement from the West of the extremely rapid improvement in the series of the extremely rapid improvement in the series of the extremely rapid improvement from the West of the extremely rapid improvement in the series of the extremely rapid improvement in the series of the extremely rapid improvement from the West of the extremely rapid improvement in the series of the South Korea during the past few years. The government Korea cannot afford "political seems to have used its powers turmoil" while it continues to in this area to ensure that the rural population has not been left behind in the race towards better living standards and to prevent too large a gap opening between skilled and unskilled wage earners in industry. with a handful of top business leaders, at the expense of for stability. smaller entrepreneurs and their

system comes, most vocally, from the so-called dissidents who have made a point of affack, ing the Yushin constitution (despite the ban on criticism incorporated in Emergency Measure Number Nine) and who have sometimes been arrested for their pains.

The dissident leaders include former presidential candidate. Mr. Kim Dae Jung (who provided a strong challenge to President Park in the last direct presidential election in 1971 and who was released from hospital detention just before the end of 1978). "Rank and file" dissidents are to be found in the Korean Christian community and among teachers and students but many of the latter apparently graduate to become dedicated employees of business establishn which provides the main private level support for the Park

Parliamentary opposition to the Park government is provided by the New Democratic Party (and by the much smaller National Unification Party). The NDP under its "middle of the road" leader Mr. Lee Chul-Seung, says Korea has to maintain a "balance sbetween national security and individual liberty" and has confined its critcisms of the government's emergency regulations to debates within the National

A more vocal wing of the NDP led by Dr. Kim Young Sam, the party's former chair-man, has attempted to stir up public opposition tis the emergency rules and to South Korea's general failure to "measure up the standards"-of Western democracy. Dr. Kim ciaims to have had an enthusiastic response from the half million South Korean residents of the United States but has found his political activities inside South Kores handicapped by indirect government action.

The views of ordinary people about the present political system remain something of a mystery. The fact that the NDE secured a marginally larger vote: than the pro-Government Demos cratic Republic Party in last December's elections to the National Assembly presumably should be read as a mild criticism of the regime—though if would appear that voters were protesting more against price rises and a recently-introduced value added tax than against the Government's stand on the basic issue of democracy versus A second feature of the 1978

sibly have disturbed the Governi ment more than the NDF of very large number of inde-pendent candidates (255 as against 161 candidates of officially registered parties) and a sharp increase in the independents' share of the total vote.

South Korea's electoral law are rigged against independent candidates, who have to pay higger deposits than registered party candidates and have les freedom to campaign. The fact that so many people chose never theless to stand in the election and that so many voters went to the polls (more than 80 per cent of the electorate) suggests that South Koreans have, not Somewhat controversially, it lost their taste for democracy-has also forged a close alliance no matter how much the Gover no matter how much the Govern ment would prefer them to opt

Charles Smith

North-South relations

Major differences remain

where relations between a Com-munist and a non-Communist Government continue to be conducted in a style reminiscent of the 1950s. The Government of along the Demarcation Line, President Park Chung Nee in the South has no relations, either official or unofficial, with exchange of mail.

The concentration of military power along either side of the Demarcation Line (or to be exact to the north and south of the four kilometre wide Demilitarised Zone) is one of the heaviest in the world, involving over 1m men and more than 1,000 fighter aircraft (to say nothing of American nuclear warheads). Almost the only concession that North and South have made to the changing favours a step-by-step approach mood of the 1970s is to withdraw a ban on the adoption of 'two Koreas" policy by the outside world. South Korea cur-rently has diplomatic relations with 105 governments while the score for North Korea (according to southern sources) is 93. would willingly step aside in These figures imply a consider-the interests of reunification, the able overlap—in other words occasional negotiating sessions

a country which wishes to main-

THE KOREAN peninsula is one nang and Seoul (provided it rituals, indicating, at best, that of the few places in the world does not happen to be a major one side or the other is trying ally of either the South or the

with the South claiming that such a thing could quite easily happen (the tunnels dug by that of President Kim Il Sung in the North. Movement across the Military Demarcation Line, North's "aggressive intenwhich divides the two halves of tions") and the North declar-the country is forbidden, and ing that war is unlikely. What the country is forbiddent and the country is forbiddent and there is no telephone link or no one appears to disagree about is that the odds against a peaceful reunification of the country are enormous—at least while the present leaderships remain in power.

The Northern formula for reunification, establishment of a confederation which would seek joint membership of the United Nations while the existing authorities continued to run things in their own way on either side of the frontier, is anathema to the South, which starting with exchanges of mail and the reuniting of divided ·families. · Because the differences are so

wide, and because neither President Park nor President Kim seem to be the kind of men who able overlap—in other words occasional negotiating sessions there is no problem today for that have been held between the tain embassies in both Pyong- by outsiders as meaningless

that might improve its image in the outside world. This inter-pretation may be correct, but it overlooks the fact that meetings of any kind between North and South are sufficiently rare to deserve attention-and to justify speculation on what might have prompted the two sides to start The most prolonged, and

promising, series of contacts to have taken place between Pyongyang and Seoul since the Korean armistice were held in 1972 and 1973 when a series of secret high level contacts between the two governments led to the establishment of a semi-official South-North Coordinating committee (whose meetings ran for about a year before being unilaterally boycotted by the North). The next the Northern package. occasion when the two sides showed interest in talking to each other was in January this year, when President Park announced his Government's willingness to meet the North "at any time, and place and at any level," and North Korea responded with an elaborate set proposals for the reduction tensions and eventual reuni-

fication of the country.

The Pyongyang blueprint, which was discussed at series of The Pyongyang blueprint, protests). The suspension which was discussed at series of abortive meetings between the Government radios but the

two sides in February and March, proposed the suspension of propaganda broadcasts by both sides, the termination of "hostile military movements", on either side of the Demili tarised Zone, and the covening in October of a "grand national congress" in Pyongyang at which decisions would, it was hoped, be taken on the North Korean plan for the formation of a confederation: Although South Korea fielded

a team to discuss the Northern proposals (and to put its own counter-proposals), its spokes men have dismissed the North Korean move as "fake " peace offer, partly because it repeat old proposals that had already been dismissed by the Soul (the confederation idea; id example), and partly because of the obviously tactical nature of some of the other elements in The proposal to suspend hostile military movement of either side of the DMZ at the

beginning of March seemed 18 be quite clearly designed to pu Operation Team Spirit," " joint U.S. South Korean million exercise which was due to start that month (and which did in fact take place despite Northern The suspension u protests).

CONTINUED ON NEXT PAGE

The economy

change of direction

SOUTH KOREA may not quite deserve to be ranked as the growing at over three per cent most remarkable economic success story of the 1970s—that to continue to "deliver" a high to Taiwan which has achieved almost as much growth rate for many years just to provide jobs and opportunities for flose who will need almost as much growth with a good deal less inflation during good deal less inflation during is that after a decade of cent rise during calendar year tainly outclasses virtually every other country in the world because of its sustained record of high economic growth and

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spectacularly increasing exports. Rorea's GNP was worth just over \$2bn in 1961, the year when Major-General (now President) Park Chung Hoe seized power in Seoul in a bloodless military coup. At the end of this year GNP should be worth \$55bp. Exports were \$50m in 1961 but hit \$12.70m in 1978 and are rently gradue scheduled to reach \$15.5bn in 1979. Per capita GNP, which was a mere \$82 when General Park marched into Seoul, will be \$1,500 by the end of this year, putting Korea just shead of some of the poorer-countries in "rich man's club" of the OECD: The street of the Autor Action

The simplest and hest explana-The simplest and nest explana-tion for Korea's economic achievement is that growth was, and is a matter of survival. For the past 25 years South Korea has been "racing" its neighbour North Korea to establish a strong economic and political system, with the alternative to failure the probability of evenfailure the probability of even-tual unification of the Korean peninsula on Pyongyang's terms.

The race today looks substantially won—the South Korean economy would appear to be between four and five times as large as that of the North in absolute terms, while individual

tainly outclasses virtually every culture-based to a light industrybased economy South Korea has been now reached a turning point in

its economic development, Superficially, all that might appear to be implied by this is that South Korea is adjusting to a slightly less hearic rate of growth after three years of ultra-rapid expansion. GNP growth averaged a real annual rate of 13.4 per cent during the three years up to the end of 1978, almost certainly the highest rate for the period achieved by any country in the world of com-parable size (although Taiwan just edged out S. Korea in the economic growth stakes for 1978 alone). The Fourth Five Year Plan, which runs from 1977 to 1981, calls for an average growth rate of 9.2 per cent throughout the plan period (actually it envisaged a 10 per cent growth in 1977 followed by 9 per cent in each of the following four years. In relation to the Government blueprint S. Korea had thus reached a point by the end of 1978 where it could well afford to cut back its growth rate to more "moderate" levels. The current year's growth target is 9.5 per cent and will be achieved

(or possibly over-achieved), not by stimulating the economy, but by a fairly severe set of deflationary policies including the imposition of a tight money policy (in force since the second half of 1978) and a balanced budget

living costs is thought to have been considerably higher, perhaps as much as 20 to 25 per

The immediate cause of this rather worrying bout of inflation is thought to have been the massive increase in money supply which occurred in 1977 Korea's unexpected success in winning Middle. East construction contracts brought a flood of foreign-exchange into the country. The money supply rose by 40 per cent in 1977 and was till increasing at an annual rate of 25 per cent last year (or 34.5) per cent in the country of 1991. per cent in the case of 112). This occurred despite a wries of Government curbs, including a freeze on the repatriation of roughly 80 per cent of foreign exchange earned by construction companies, and a deliberately "engineered" deficit on the current account of the per cent in the case of 12). the current account of the balance of payments.

The Government hopes to bold this year's increase in consumer prices to between In and rate of increase in money supply meat and vegetables.

chication, so as to increase and thus in the long run make complex by the early eighties to the economy less dependent on respond effectively to central-cent for both MI and M2. It rocketed by as much as 30 per Labour shortages in some imported raw materials and ised control by a handful of

The aim is to keep the prices remainder of 1979 but this could der of the year. Another prob-lem that could prove harder to seller's market for labour. handle than the Government Wages have been going up stabilisation of Korea's rapidly rising farm prices.

says the Government has deli-berately kept farm prices high in the past few years (in order to prevent too rapid a move-ment of the rural population into the cities). It also admits that a policy of going all-out for self-sufficiency in rice (now successfully achieved) has tended to produce shortages of 12 per cent and to keep the other types of food including

The Economic Planning Board

A third major symptom of of such items steady at their overheating has been a sharp new levels during most of the change in conditions on the labour market. Korea regarded turn out harder to achieve than itself as a country with a the Government appears to chronic excess of labour until believe. Higher prices for two or three years ago and imported crude oil (which supplements officials today conplies 55 per cent of energy tinue to talk of the need to needs) still have to be reflected maximise GNP growth rates in in the general price structure order to absorb a continuing of import barriers erected in and are expected to add at least increased in the labour force. Europe, Japan and the U.S., Hitherto Korea has had one 2 per cent to the wholesale In the short term, however, or, just conceivably, by global of the "Free World's" most price index during the remainture seems to be no question shortages of the imported fuels tightly supervised economies, der of the year. Another probability of that Korean employers face a and raw materials on which the with the Government initiating

> panies to increase the wages of gerous) increase in differentials taking steps to increase enrol-

to solve the overheating probblems-and there is no reason, given time, to doubt that the problems will be solved-the prospects for the Korean economy will become very much a matter of what happens in the outside world. Growth to its next phase of developcould be stunted during the ment. next five years or so by a drastic increase in the number

economy is dependent. The Government's recipe for by around 25 per cent per year avoiding these dangers is to ing enough power to ensure for the past three years, with bring about a shift in the structurally sharp increases in ture of industry from lighter such investments also make a rates for skilled or managerial and more labour-intensive profit. The EPB expects to have rates for skilled or managerial and more labour-intensive profit. The EPB expects to have workers. The Government has sectors into capital-intensive or to abandon this type of planning been encouraging small com-skill-intensive sectors. By doing in the next phase of the their lowest paid workers so Korea's exports out of the of a more general approach as to avoid a (politically dan- areas (such as textiles and elec- based on resource allocation between high and low paid is a major problem. The shift for the development of major sectors of the community. It is towards high technology indussectors. It will have to relax its also, as matter of urgency, tries would also increase the grip on the planning process for amount of value-added in ment of students in higher Korea's manufactured exports Korea's economy will be far too education, so as to increase and thus in the long run make complex by the early eighties to

Economic Planning Board, which masterminded the first phase of the country's inbe confident that the economy can generate enough savings to finance investment in heavy and advanced industries and that Korean workers and managers will be able to rise to the challenge of turning out computers instead of black and white TV sets and textiles. What it appears to feel marginally-

less certain about is its own role

in piloting the country through

Supervised

almost every major investment by the private sector and wieldthis it hopes to diversify country's development in favour tronics) in which protectionism and the setting of broad targets

bureaucrats.

The EPB's general air of confidence could mask a few doubts about the future. Not everyone agrees that Korea will make the transition to high technology industries as easily and rapidly as it switched from an agriculture-based to a light industry-based economy between 1965 and 1975. start turning out turbo-generators in six years. Our experts think it might take 25 years" is how a diplomat at the Seoul Embassy of one of Korea's major Western trading partners expressed these doubts recently. There are also a variety of views on the seriousness of the protectionist threat to Korea's exports, which constitute a vital 35 per cent of GNP.

Korea does not pretend to be unconcerned about pro-tectionism. But the planners who opted for high growth and rapidly growing exports at the dent on world trade could still turn out to have had sounder instincts than advocates of a more cautious strategy. Other countries besides Korea have been making a dash for growth in the past few years on the assumption (which could well prove to be correct) that exportled expansion policies will prove harder to pursue in the eighties than in the seventies. Whatever happens, Korea is unlikely to have any reason to regret that it

Charles Smith

Samsung provides fertile soil for the development of Koreans are probably a few budget. hundred dollars per head better. In deciding to put on the off than their northern counter- brakes in late 1978, South technologically advanced industry. parts. That does not mean that Korea's economic planners were the South can afford to call a not simply attempting to bring

Some maintain that the great tech-nological advances of the 20th century have reduced the dimensions of space and time. It's a small world, they say.

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Differences

CONTINUED FROM PREVIOUS PAGE

essuming, as most people do, that China was urged to use its good offices in this direction when Vice Premier Tenz Hsiao ing made his recent trip to

ive could be to reassure the American public of its peaceful itentions towards South Rores a time when the future of esident Carter's plan for the athorawal of U.S. troops from he South seems very much in he balance. Finally, and most number of the secondarion. hat the North might have been taying second thoughts about its traditional policy of relying on the maintainance of decisive military superiority over the South to bring about ultimate reunification

reunification. The point being made here is not that North Roral does not wish, to maintain military superiority, but that it may be reaching a point in its economic development where such a policy is no longer viable. North Korea (according to South Korean intelligence sources, which may not necessarily be correct) spends between 20 and 25 per cent of its GNP on defence, whereas the south claims to spend around 6 per cent. However, the South's GNP has been growing considerably faster than that of the North and is now that of the North and is now possibly five times as large (about \$46bn in 1978 compared with the (very roughly) estimated northern figure of \$6bu\$9bu). This would appear to mean that the absolute level of defence expenditure (as opposed to the ratio of defence to GNP) may now be roughly the same in both halves- of

to catch up on (and overtake) Northern defence spending. Southern analysts claim that the cumulative total of North Korean defence spending since the end of the Korean war is between two and two and half times that of the South. The North also has more men under arms, even though its population. (estimated at 17m) is to whom Russia is a large and barely half that of South Korea. alarming neighbour, with an un-The North may continue to have a larger army for the foreseeable future, but Northern firepower, according to southern analysts, could be evertaken by that of the South by the mid-

Korea, with the South tending

This will remain true even if American intelligence is correct in its recent reassessment of Northern armed strength (according to which the North may be about 25 per cent stronger than was previously believed). If South Korean analysis are

ight in believing that the North may eventually lose its inflithry edge, the North would eem to have three policy ptions-none of them easy or

a mild the south is discovered in the south in motives for the northern hat tolers were peace more which is circulating that south is motived for the northern hat tolers were peace more which is circulating that seems development). High would be a danger of (possibly nuclear) regalization in the bar laws promoted Pyonggens to korea, which is circulating the would be a danger of (possibly nuclear) regalization from U.S. forces in or korea, which peace in the form the law peace more fart talking according to this har peace in the form the law is a first talking according to this interpretation of Nearly session. This are the laws in the form the law is a first talking according to this interpretation of Nearly session.

to reduce tension in Korea and promote normalisation of contacts between the two halves of the country. The third alternative open to North Korea would seem to be change its economic policy: in other words Pyongyang might start looking to the West, as China is doing, for loans and other forms of assistance which would enable it to modernise and

expand its economy.

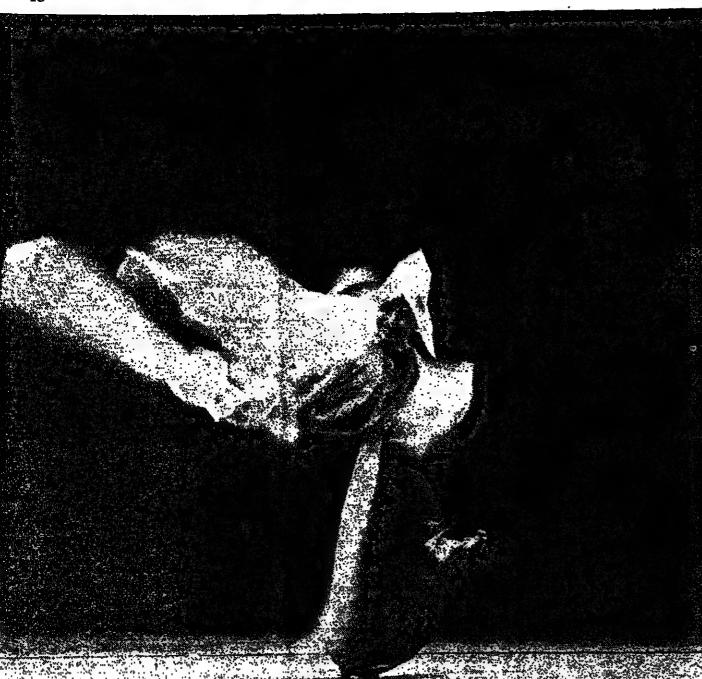
Recent speeches by North Korean leaders, including President Kim II Sung's New Year address, have indicated a growing concern with economics and with the expansion foreign trade (not just with communist and Third World countries, but with all countres). However, there is no real indication that Pyongyang is planning to embark on an open door economic policy similar to that adopted by China. One reason why this would be difficult is that the North is already heavily in debt to western creditors (with more than \$1.2bn owed to Europe and Japan since the end of 1975)

and is thus in no position to ask for fresh assistance. If North Korea is not in a position to "do a China" in terms of its economic policy, and if it lacks the audacity to pursue the opposite extreme of launching a surprise attack on Seoul, diplomacy would seem to exists for new policy initiatives The North's biggest diplomatic asset at present would appear to be the fact that it is on reason ably friendly terms with both China and the Soviet Union and is thus in a position to be "courted," not only by the Chinese and the Russians, but by any other power which hopes

to prevent the emergence of a strong Moscow-Pyongyang axis. One nation which would certainly not wish to see North Korea aligning itself firmly with the Soviet Union is Japan, comfortable tendency to send warships and fighter aircraft into areas bordering Japanese sea and air space. The U.S. also has good reason to dislike the prospect of a Pyongyang Moscow alliance, since one of the first benefits likely to accrue to the Russians from this would be the acquisition of a naval base in a north Korean warm water port. The Russian card may be the strongest one that Pyongyang holds at present, but it may still not be strong enough to give North Korea the upper hand in its battle to gain power and

influence versus the South.

1980s if present trends continue.



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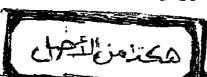
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U.S. relations

Tensions have eased

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The specific was a second be imagined. The specific was a second bound to make of South Korea's it did in 1978 and 1977.

The specific was a second between treaty the presence of U.S. ground bound to make of South Korea's it did in 1978 and 1977. The speaker was Mr. Richard Korea from launching an inva- Mr. Carter will raise the issue is Holbrooke, U.S. Assistant Secre- sion attempt during the past 10 tary of State for East Asian and years. Pacific Affairs, giving his estimation (during a visit to Seoul on deployed in the 25 miles of hilly are applied to freedom of speech March 17) of the state of U.S .-Korean relations. Mr. Holbrooke went on: "We had a culmination, which forms the border between of stresses and crises which could have torn the treaty alliance apart . . . I refer to the so-called 'Koreagate' problem, to the congressional scandals, to grave misunderstandings and concerns-which we felt were exaggerated but nonetheless alongside the South Koreans. were real-over the troop with-

drawal policy and to the question of human beings' individual freedom and dignity.

"The later part of 1978 showed a significant improvement in these areas... we view 1979 as a year for strengthening

the relationship.
"We assess the U.S.-Korean relationship as having been on an ascending curve over the last few months. . . . now things that do go up can go down and I don't want to leave the impression that I am predicting a smooth course or a trouble-free future because that clearly is very difficult in a situation that is as fundamentally complex as this one. But basically things have gotten much better and we believe we have weathered the erisis.'

No one could suggest the Assistant Secretary of State was glossing over the extreme tensions that had marked the relationship between Washington and Seoul during the past 2: years. The tensions were at times extreme, reflecting the very high degree of dependence that South Kores has had on the U.S. for the past 25 years and the sudden realisation—on both sides—that the relationship had changed fundamentally.

Recognition that the tensions bate now eased and that the new relationship is being accepted will come later this year with the visit to Seoul by U.S. President Jimmy Carter, following his stay in Japan to take part in the developed nations economic summit meeting in Tokyo in

Although the visit will be brief. Mr. Carter and South Korean President Park Chung Hee have a great deal to discuss. The policy adopted by the U.S. Administration as soon as Mr. Carter came to office of the gradual withdrawal of the promise scrapped.
30,000 U.S. ground troops in
Korea by the early 1980s has U.S. Forean relations remain of caused intense and continuing an "accending curve." It may anxiety in Korea. There is a also be the goodwill gesture Mr.

country that separate Seoul from the demilitarised zone (DMZ) north and south. Because of the nature of the terrain along the DMZ, any invading force would have to pass through the area garrisoned by the Americans, thereby immediately involving the U.S. in military operations

Despite frequent and public assurances by the U.S. in the past few years that there will be no reduction in U.S. air or naval forces in the Korean region, and despite a US\$ \$00m programme to beef up the military hardware of the South Koreans, Seoul remains unconvinced.

Hope

Early in March, Prime Minis-ter Choi Kyu Han told the Americans that "it is our sincere sope that (you) will deal very grudently with the question of fiture troop withdrawal in view of the rapidly changing intermational situation and the additional military build up in North Korea so as not to disrupt he military balance on the grean peninsula."

The Koreans were certainly not reassured when a recent re-assessment by the U.S. of intelligence data showed that the North Korean army had about 179.000 more men and considerably more tanks than had pre-vigusly been thought. It gave the pause as well, and the roop withdrawal programme been "held in abeyance". ding further analysis of the regorts.

some observers this seems perfect excuse that Mr. Carger needs to drop the withpolicy, which has me increasingly unpopular in the U.S. Congress and has never been accepted by the

Is seems likely that any anniuncement on the future of policy will be delayed until Mr Carter speaks with Presidem Park, and few doubt that the "discovery" of the extra northern divisions will see Mr. Carte's unpopular campaign

uncertain, but it is accepted by both Korean and U.S. officials The bulk of the U.S. forces are that the severe restrictions that

and political activity under the Yushin Constitution and emergency decrees drawn up by President Park will be raised by Mr. Carter. Very few contacts between U.S. and Korean officials take place without human rights

issues being mentioned in some form. The Koreans feel the Americans are ill-informed about the concept of civil rights in a society such as Korea, and that what may succeed as a form of government in the U.S. is not applicable to South Korea. However, they realise they can-not simply ignore such a funda-mental part of Mr. Carter's foreign policy.

Seoul took a major step at the end of last year to ease this irritant in its relations with Washington by releasing from detention more than 1,000 political prisoners, including former Presidential candidate Kim Dae Jung, who has become a symbol among U.S. liberals of the Korean dissident movement.

Although Mr. Kim has been closely watched since his release he has been able to criticise the Park Government without in-curring anything worse than warnings that he is breaching his parole.

Mr. Kim's release was seen in Korea as being the result of continuing U.S. pressure and directed at U.S. opinion which was turning away from Korea in the aftermath of normalisation U.S. relations with Peking. Mr. Kim himself has played on this and on the coming visit of Mr. Carter to keep up his criti-cism of Mr. Park, and has asked for the opportunity to meet Mr. Carter when he visits Secul—a request that is unlikely to be

granted Whatever Mr. Carter's comments on human rights, they will only represent a continuation of existing pressures, so they are certain to be accepted with good

One area Mr. Carter will not have to worry about is the socalled Koreagate scandai in which rice-dealer Park Tong Sun and former Korean ambassador to Washington Kim Dong Jo were implicated in allegations of bribery of U.S. senators and representatives. Although extensive investigations in the U.S. last year finally established that some illicit payments had been auxiety in Korea. There is a also be the goodwill gesture Mr. made—and lagar machinery is firmly held belief among vir Carter needs to counteract still moving on some cases—the

The demand by the U.S. Congress that Mr. Park and Mr. Kim appear before its cammittees in Washington, brough relations between the U.S. and Korea to a very low level, Seou initially resisted persistent U.S. pressure before allowing Mr Park to testify, with persona immunity from prosecution. Mr Kim Dong Jo never made the trip to Washington, and in retaliation the Congress vetoes

\$56m of food aid. Mr. Carter may face a more testing time when the subject turns to economic relations in this area, as much as in militar affairs, there has been a fundmental change in the relative

The rapid economic grown of South Korea in the 1970s has changed the ties with the US from those of dependence in-those of balance—although ret to the extent that U.S. trale officials would like, as Kora last year recorded a trade saplus with the U.S. of \$1.1bt. The largest segment of this

trade is in textiles and garmena areas which in the U.S. are now subject to intense protections lobbying. Although the two tile trade agreement giving quotas and an amount of growth to the Korean industry, there are continuing efforts at tighter ing controls which the U.S. adustry claims are being bypassed.

The Koreans are trying to head off some of this trade friction by purchasing, with accompanying fantare, consider able quantities of American commodities. Later this yea Seoul is sending a big buyin mission to the U.S. to sign u suppliers of goods ranging from biscuits to machinery. Whether these deals would have bee made anyway is a matter dehate.

However, the U.S. does a new openings for its producin the medium to heavy indurial sector of Korea Notals among these are aircra. power plant ad nuclear machine tools.

If Mr. Carter's visit to Sen can reassure the Koreans there is no wavering in the military commitment to So Korea, while bringing home need for the U.S. to main a reasonable balance in trading U.S. Korean relati will indeed maintain ascending carve that Bari Helpreoke Idrecast

Ron Richards

Links with Japan

Trade friction increases

largest market for Japanese exports (absorbing goods to the value of 60 per cent of Japan's exports to the whole of the value of 80 per cent of Japan's exports to the whole of the EEC). Add to this the fact that Korea has borrowed from Japan many of the successful development policies pursued over the past decade, and one can see that the two countries have done a good deal to concan see that the two countries components. From the early have done a good deal to con-

its position as undisputed world to challenge that position with Today the introduction of its own cheaper products. There direct barriers against Korean thing becomes possible, Korea World War II and has not forgotten the severity with which population their language and ventures in consumer elec-culture. Two hundred years tronics or other light industry before that the Koreans spent years fighting off a series of

The post-war relationship be-tween Japan and South Korea dates, for all practical purposes, from 1965, when President Park Chung Hee successfully tackled the issue normalising diplo-matic relations with Tokyo. (His predecessors had ducked the issue because of a strong popular antipathy against Japan.) From the time of normalisation onwards Japanese loans and investment began to flow into Korea in rapidly increasing quantities, and Korea

separate enterprises, ranging from small-scale assembly A significant portion of the operations to major petro-total appears to be bought in chemical or heavy industrial under contract from Japanese-

SOUTH KOREA and Japan are completes. The Japanese in Korean joint ventures (some of than the overall percent close partners in one sense and vestment in such ventures which are obliged by their terms. Increase in Korean exports bitter rivels in another. Japan's represents about 60 per cent of of operation to concentrate pre- ing the same period).

tribute to each other's progress. the added attraction of being
The rivalry is a mirror image a manufacturing base from
of the partnership. Korea which Lapanese companies of the partnership. Korea which a Japanese companies aspires to displace Japan from could export to the United States without encountering market leader in industries the barriers which were being such as shiphuilding and con- erected against goods directly sumer electronics—or at least shipped from Japan.

Is also a feeling that by beating imports in the U.S. and Europe Japan at its own game, if such has undermined the second of these advantages, while Korean will be getting its own back for labour is a good deal less cheap several centuries of history in than it was. There is still which the Japanese have very definitely had the upper hand. based Japanese investments Korea was a Japanese colony (i.e. projects where the Japanese partner acquires a stake nese partner acquires a stake in a Korean joint venture in return for providing know-how. the colonial rulers tried to It also appears that Japanese impose on a reluctant local companies with Korean joint sectors may have started using their Korean affiliates to fill Japanese invasions which part of the Japanese quotas for devastated much of their such goods in the U.S. or such goods in the U.S. or of the economic relationship Europe (thereby earning with Japan Frictions centre "Japanese prices" for goods around the imbalance on

produced by Korean labour). Because of Japan's investment presence and because geographical proximity gives it a strong competitive advantage in terms of freight rates and delivery times. Japanese goods have outpaced competing western products in the Korean market for the past decade. Japan supplied 44.5 per cent of Korea's imports in 1967 and still held a 40 per cent share in 1978, despite a conscious effort by Korea to diversify imports. The quickly became dependent on Korea to diversify imports. The Japanese supplies of semi-processed industrial materials to feed its textile and other fast growing light industries.

Japan's investments in Korea of semi-processed industrial raw materials for the textile industry and the form of semi-processed industrial raw materials for the textile industry and commonants for the electronic semi-processed industrial raw materials for the textile industry and commonants for the electronic semi-processed industrial raw materials for the department of commonants for the electronic semi-processed industrial raw materials for the department of commonants for the electronic semi-processed industrial materials to semi-processed industrial materials to sales to Korea consists of the bulk shipments of semi-processed industrial materials to sales to Korea consists of the processed industrial raw materials to sales to Korea consists of the processed industrial materials to sales to Korea consists of the processed industrial raw materials to sales to Korea consists of the processed industrial raw materials to sales to Korea consists of the processed industrial raw materials to sales to Korea consists of the processed industrial raw materials to sales to Korea consists of the processed industrial raw materials to sales to Korea consists of the processed industrial raw materials to sales to korea consists of the processed industrial raw materials to sales to korea consists of the processed industrial raw materials to sales to korea consists of the processed industrial raw materials to sales to korea consists of the processed industrial raw materials to sales to korea consists of the processed industrial raw materials to sales to korea consists of the processed industrial raw materials to sales to korea consists of the processed industrial raw materials to sales to korea consists of the processed industrial raw materials to sales to korea consists of the processed industrial raw materials to sales to korea consists of the proces take the form of joint venture of components for the electroparticipation in about 340 nics and other light manufacturing industries.

stake in the fast growing the total value of foreign curement in Japan). The Korean stake in the fast growing the total value of foreign curement in Japan). The Koreaw They might well have great economy, through trade investment in Korean industry Government now strongly discharge in the view of in and direct investment is far and can be classified (in chrono-courages local participants in Koreans, if Japan had not planter than that of any other localed, terms) into three Japanese joint ventures from tained import quotas (or nation and Korea is the second separate phases.

Committing themselves to Japan types of restriction) on a will be a separate phases. ese procurement. Despite this of major export items included one of the major synthetic fibre, five varieties of fresh and of

presence has also produced the converse result of stimulating

Korean exports to Japan. Approximately one-third of Korea's exports to Japan in 1978 consisted of textiles, whose value was far ahead of any other country's textile sales in the Japanese market. The bulk of thes shipments appears to have come from Japanese-Korean joint ventures estab-lished in the early 1970s at a time when high labour costs were undermining the ability of the Japanese textile industry to supply on its own domestic market.

market.

Korean officials are honest enough to admit that their country owes a good deal of its recent economic success (particularly during the early stages of industrialisation) to Japanese investments and to regular supplies of cheap Japanese materials. This does not alter the fact there is profound dissatisfaction about some aspects around the imbalance on bilateral trade, which has grown continuously and rapidly since 1975 and which, last year, was almost double Korea's global trading deficit (\$3.35bn com-pared with an overall visible trade deficit of \$1.8bn). Japan's exports to Korea in

1978 grew by 52 per cent despite (or perhaps even because of) the fact that the yen was appreciating rapidly against the won during much of the year... There is evidence that Korean importers rushed to buy having to pay the higher prices Japan nevertheless seem that were expected to result served in practice to hinds from revaluation. While Japan expansion of Japanese his was achieving a spectacular activity in Korea. One exi

fish; edible seaweed (an portant commodity in Japanese market); leather wear; baseball gloves; and wear; baseball gloves; and processed silk. Japan denot maintain barriers against Korean textiles and electron products of the kind which are now becoming general Europe and the U.S. Howers Korean manufacturers of man types of light industrial god seem to have found the Japane market fairly hard to penetral (with a few notable exceptions such as the tyre industry).

might wish to achieve a better balance in its trading relation ship with Japan, there probably nothing it can do the would change the relationship overnight. The changes of Korea persuading Japan in his its restrictions on fish imports appear slim given the strengt of the Japanese fishing lobb and the relative lack of war m which Korea can b pressure to bear on Japan with out damaging its own economic interests. What Korea can-da and has been doing. restrict Tapanese econ activity through various: form of "administrative guidante Korean importers of it

encouraged during the past vers to make their pure in Europe rather than Trop At the same it would a that Korean companies ing partners for new venture projects have told to look elsewhere Japan. This could be one reason why Japan accounted for only 38 per cent of new foreign investment in the country of the count during 1978 (in contrast wh its 60 per cent share of chim lative foreign investments in the end of 1977).

importers rushed to buy A series of other administra-Jananese goods during the first tive devices which are in half of 1978 in order to avoid estensibly directed again increase in its sales to Korea, is the Korea Trace Trace to Korea exports to Japan rose Law, which obliges dotten by a much more modest 22 per trade companies to seek per cent (that is by a slower rate mission from the Korea to the Korea trade companies to seek per cent (that is by a slower rate mission from the Korea to the Korea trade companies to seek per cent (that is by a slower rate mission from the Korea trade companies to seek per cent (that is by a slower rate mission from the Korea trade companies to seek per cent (that is by a slower rate mission from the Korea trade tra

CONTINUED ON NEXT FAGE

Group system wins more exports

command by the comman

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ir. ih Aureaus. Dirighten fo S. the U.S. to make ble balance m S Kotean reift eri maintaja j outve that Bid Con Richard

succeeded is South Korea. 12 today (one dropped out at the beginning of the year after queue to win GTC status: failing to meet the conditions. The 1979 qualifications in for GTC designation). The clude: exports equivalent to at This is enough to prove that

the GTCs represent a major quotation of the company's element in the export-oriented shares on the Seoul Stock South Korean economy, Whether they are also a helpful and positive element so far as the rest of the economy is concerned.

the country meets its export tar-cause it handles small orders gets, came up with the idea of for small and medium-sized creating GTCs in 1975, after business enterprises and therebranch petworks of Japan's equal the turnover of competi-

Friction

that foreign trading companies

on Korean territory. (They may act as " offer agents." for Korean

transactions in their own right exports.

importers but may not buy or Restraint

Traders' Association before they would represent formidable com-

may open full branches in petitors for Korea's fledgling Korea. The KTA has yet to issue general trading companies a single approval and appears. (GTCs) if given a free hand. unlikely to do so, with the result. Korea probably has much less that foreign trading companies reason to fear that western trad-

are effectively banned from ing concerns might take over carrying out import or export the handling of its imports and

not, permitted the opening of on Japanese, business activity,

MANY COUNTRIES, including sogo sosha had a lot to do with tors dealing in bulk orders. A The list of privileges and tending to draw within their Mexico, Singapore and results global success of Japanese second company, Hanil Syn-immunities granted to GTCs orbit more and more small and portedly even France, have exports. The requirement for thetic Fibre, scraped through does not provide the full medium-sized concerns which copied or considered trying to copy the hitherto unique institution of the Japanese general trading company (soge qualified (Samsung Company, shosha in Japanese). The only country which seems to have succeeded is South Korea.

Exports. The requirement for thetic Fibre, scraped through does not provide the full menum-sized concerns which because it was able to convince that exports should exceed the authorities that its indirect exports of artificial fibres of artificial fibres through other South Korean general trading companies can show a gualified (Samsung Company, (through other South Korean general trading companies). The only the long-established trading arm of the Samsung group). In substance exports of artificial fibres of artificial fibres that its indirect exports of artificial fibres of companies can show a profit, despite the enormous overall planning and co-ordination for the ground of the system find themselves in need of the substance of cases GTCs also perform an overall planning and co-ordination for the ground of the full works and why Korean general trading companies can show a profit, despite the enormous overall planning and co-ordination for the ground of the system find themselves in need of the authorities that its indirect exports of artificial fibres to companies can show a profit, despite the enormous overall planning and co-ordination for the system find themselves in need of the authorities that its indirect exports of artificial fibres to companies can show a profit, despite the enormous overall planning and co-ordination for the system find themselves in need of the system find themselves in need of cases GTCs also perform an overall planning and co-ordination for the system find themselves in need of the system find themselves in need of the system find themselves in need of cases GTCs also perform an overall planning and co-ordination for the system find themselves in need of the system find themselves in need of themselves in need of the system find themselves in need of the sys South Korea had 13 officially stepped up considerably as more statistics.

Sequent years requirements were recorded in the customs staffed by highly paid executives, and more of Versia land. registered GTCs in 1978 and has and more of Korea's leading business groups joined the

group of companies bearing least 2 per cent of the national this privileged and exclusive export figure for 1978 (this label sold 32 per cent of Korea's works out at about \$254m per exports last year and probably company); sales of at least five will sell more than 40 per cent different items to reach or ex-in 1979. ceed: \$1m-worth per item; an international branch network of at least 20 offices; and public Exchange.

The 12 GTCs registered positive element so far as the rest of the economy is concerned is still partly open to question.

South Korea's Ministry of commerce and Industry, which is responsible for seeing that was given special treatment between the country meets its constant of the second treatment between the country meets its constant of the second treatment between the country meets its constant of the second treatment between the country meets its constant of the second treatment between the country meets its constant of the second treatment between the country meets its concerned of the government this year include two companies which did not, in fact, meet all of these qualifications. One, the semi-constant of the country meets and the concerned of the government this year include two companies which did not, in fact, meet all of these qualifications. One, the semi-constant of the constant of the co

South Korea's banking regu-

The reason why the KTA has lations also serve as a restraint smaller than that of major

foreign trading company although less drastically so Korea seems to be aware that branches is understood to be than in the case of trading its policy of import liberalisathet it believes the major company branch approvals. The tion, introduced last year, could alapanese trading companies Bank of Korea has allowed four work in favour of Japan and

(Mitsur and Mitsubishi, etc.) Japanese banks to spen full against the interests of less

export intelligence at a lower cost than non-GTCs are able to do). They can select their uwn " main " banks (unlike ordinary South Korean companies which have their main banks designated for them by the Bank of Korea.

Their overseas branche, or subsidiaries may raise foreign currency loans without reference to the strict guidelines which apply to offshore borrowing by the rest of South Korean indus-try. And they pay lower fees than ordinary companies for the concluding that the far-flung fore could not be expected to processing of export contracts

that Japanese banks have been

given numerically equal treat-ment with British and French

banks, despite the overwhelm-

ingly larger stake of Japan in

Japanese authorities have restricted Korean banks to the

opening of the same number of branches in Tokyo (which

presence in Japan is much

western European countries.

the Korean economy.

qualifications set by the govern- poration) also happen to be and the designation of GTC can ment the GTCs receive various members of large, diversified, he said to confer "group status" privileges. They can become industrial groupings. They start on the whole family of commembers of any or all of the out therefore with the advantage panies to which the company export associations organised of having a "tied" clientele for within major South Korean, their overseas marketing activity role accorded to the GTC fits in industries (which means they ties.

Daewoo, the number one GTC exports which pervades South

> family of companies as a top leading heavy industry enterprise and one of the biggest textile concerns. A similar set of relationships is enjoyed by Samsung Company, Hyundai Corporation and the rest of the 12 GTCs. On average, South Korean

GTCs depend on group members for about 50 per cent of their export turnover while. picking up the rest of their busines from smaller, unattached clients. GTCs are encouraged by the Government to acquire required by South Korean law. subsidiaries and, therefore, are

West. To minimise the advan-

tage given to Japan the Govern-

ment appears to have made a

point of selecting items in which

European industry is strong (eg

biscuits) for inclusion in the

initial rounds of liberalisation.

Ultimately Korea may have to

open its market to products in which Japan enjoys a strong

example cars). The hope is,

branches in Seoul, which means competitive exporters from the

means that the Korean banking global competitive edge (for

The

jobs in the government. The drawback of the GTC system, as seen by the companies which have qualified, is that government guidelines are too ambitious and make it too hard to register profits (although all 13 GTCs did, in fact, report profits for the year

comes Korean industry will it-Korea seems to be aware that self have grown strong enough its policy of import liberalisa to hold its own against Japanese

The GTC is, therefore, in a tatistics.

All the GTCs (with the very real sense the "core" of In return for fulfilling the exception of Korea Trading Cor- the group to which it belongs concerned is related. The central in 1978, belones to the same Korea's entire economy. It provides a contrast, however, with electronics manufacturer, a the situation in Japan where a sogo shosha may, or may not; play a central role in the group to which it is related.

The Ministry of Commerce and Industry, which administers the CTC system, says that the companies concerned enjoy one other important benefit. They are attracting the brightest graduates from top universities, in contrast with the situation of a few years ago when the toughest competition was for

1978).

In the view of ordinary South Korean trading concerns which have not managed, or tried, to win GTC status the system is open to more radical objections. They argue that the creation of GTCs has served merely to concentrate the business of selling Korean exports into fewer hands - not to increase the overall amount of business faster than it would have increased anyway. Concentration of ownership and control could be dangerous, according to the system's critics, although it may appear harmless while the economy, and exports, are growing fast and everyone is becoming rapidly better off. The Ministry of Commerce

however, that when that time and Industry admits that critics of over-concentration could

THE GENERAL TRADING COMPANIES Exports in \$m Number of over-Company name and date of designation 1977 seas branches Ssanevone Industrial Company, May, 1975 473.3 International Chemical Corporation, Nov., 1975 ... Hanil Synthetic Fibre Industl. Company, Dec. '75 31.3 167.1 Kumbo Company, Dec., 1976 307

Note: Yulsan Industrial Company did not apply for GTC designation in 1979.

GROUP INTERESTS

druor i	RIENESIS
ainsung Company:	Textiles, garments, department store, sugar re- fining, hotels, electronics machinery, shipbuild- ing, rolling stock, defence, construction (22 companies)
aewoo Industrial Company:	Heavy industry, construction, electronics, ship- ping, finance, insurance, leather, textiles (23 companies)
saugrong International Chemical Corporation:	Cement. clectronics, chemicals, university (11 companies) Footwear, textiles, paper, electronics, construction, shipping, transport, securities (22 companies, approximately 200 subsidiaries)
anii Synthetie Fibre:	Synthetic fibres, wool spinning and weaving, petro- chemicals (6 companies)
oryo Trading Company:	100 per cent owned by Korea Traders Association. specialises in small orders
yesung Mooisan:	Tyres, leather products, tannery, nylen (8 companies)
ando Trading Company:	Member of Lucky Group, electronics, chemicals, mining construction, petroleum refining, securities (32 companies)
ankyong:	Textiles, electronics, machinery, rubber, tourism (12 companies)
amwha Company:	Footwear, raw silk, silk fabric (25 companies)
umho Company:	Tyres, electronics, hus transport, bicycles (12 companies)
yundai Corporation:	Construction, automobiles, shipbuilding, heavy industry (17 companies)

as a whole.

Yulsan Industrial Company:

The Ministry has one other specific concern—to see the GTCs increase their role in the handling of imports. The 13 GTCs handled only 4 per cent of the nation's total imports in have a point, but says the 1978 (compared with 32 per GTCs have created an "atmo- cent of its exports) and seem

case of cotton) or from industry itself (in the case of many other industrial raw materials).

GTCs may well play a leading role in the new phase of overseas - resource development which will have to accompany the further growth of South C.S. sphere of export promotion to have faced difficulties in Korean industry. Meanwhile,

which has helped the country taking over import business successful or otherwise, they are from state corporations (in the at least free from the worry of foreign competition. South Korean trading company requires approval from the (private sector) Traders' Association to open a full operating branch in Seoul. So far not a single approval has

Shipping, aluminium, construction .



is OK



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OVERSEAS BRANCHES: New York, Los Angeles, Chicago, Toronto. Panama, Buenos Aires. Sydney. Osaka, Bangkok, Hong Kong, Manila, Jakarta, London, Paris, Dusseldorf, Göteborg, Cairo, Lagos, Tehran, Amman, Beirut, Kuwait, Dubai, Jeddah.

Competition and conformity

SOUTH KOREA'S banking is a shoot the Bank of Korea, exercommercial banks-all partly high degree of uniformity in five commercial banks-the Government owned - vie with specialised banks, ten private tions of the commercial banks Korea First Bank and the Bank regional banks and about two up to the level of appointing of Seoul and Trust-which are dozen foreign banks for senior officials and even to all effectively state-run. chronically-scarce funds.

On the other hand, the Finance Ministry and its off- the institutions.

hand five nationwide specialised banks, leading to a the top of this structure are the 1972. Government-owned Korea is involved in the opera- Choheung Bank, Hanil Bank, issuing detailed instructions on the day-to-day functioning of

The structure of South from which it transferred most but it may also set different ened their ordinary banking their behaviour. The Bank of Commercial Bank of Korea, the

> The Government is the largest shareholder in all except Commercial Bank of Korea,

curious mixture of competition cise comprehensive control over Korean banking gives a decep- of its equity stake to the ratios for different types of business in competition with the and guided monopoly. On the both the commercial and tive impression of diversity. At Korean Traders Association in deposits.

All these banks have their head offices in Seoul and operate a network of nationwide branches. With similar historical backgrounds and with strong intervention by the government in their development, the five city banks have been brought to a close uniformity in their organisation. Each is about the same size in terms of capital, deposits and loans outstanding and the number of branch offices.

In addition, a strong uniformity prevails in the addition. banks' management. Interest rates are agreed by the Bankers Association, in conformity with maximums set by the Bank of Korea, while dividend payments are also subject to government

Even though the commercial banks seemingly compete with each other, in practice the high level of regulation imposed by the Bank of Korea has severely limited this competition.

Reserves

The city banks rely heavily on the rediscounting facilities of the Bank of Korea because of a chronic shortage of domestic savings in South Korea's banking system relative to the very heavy demand placed on the banks by industry for finance. The bank meets this demand for funds on highly-selective terms, giving priority to those areas (such as export industries) deemed to be nationally important rather than the most profit-

The other contributing factor to this fund shortage is the high level of statutory reserves required by the Bank of Korea. Not only does the central bank have the power to set and alter the minimum ratios of reserves that the banks must maintain against their deposit liabilities,

It is perhaps not surprising that a private study of the composition of the lending portfolios of the city banks showed that not only were they almost identical in terms of industries supported, but that changes that had taken place in this breakdown in the past five years were almost the same for all five

Complementary to the city banks in function, but competitive for funds are the 10 regional banks. These privatelyowned institutions have been set up during the past 10 years to help finance the development needs of provincial areas.

Previously it had been found that the regional deposits with the commercial banks (and with flowing away from the provinces to finance development projects in the major cities or government-promoted industrial areas. The regional banks have acted as a counter to this drain and accordingly their major customers are usually smaller local enterprises and utilities.

The much larger system of specialised banks—eight in all -are answerable directly to the Ministry of Finance. They were established progressively—start-ing with the Korea Development Bank in 1954—to provide the long-term or special-purpose funding necessary in the developing Korean economy.

Initially these specialised banks were operating in areas which the commercial banks had been unable to satisfy, and operated with government funds as part of their resources.

However, in recent years, the amounts borrowed from the Government have declined relatively, while other sources as hank debentures. such deposits and foreign borrowings have increased. As a result, the specialised banks have strength- must evercome.

capture a sizeable volume of ordinary deposits.

At least two of the specialised banks — Korea Development Bank and Korea Exchange Bank -compete directly with the city banks in the more profitable areas of their business, notably foreign exchange lending.

The remaining, and newest, section of the banking sector, are the branch offices of foreign banks operating in Seoul and to a limited extent in Pusan, the second largest city. At present there are 24 fully-operative foreign banks, while about 10 more have established representative offices, which is usually the preliminary step to seeking a full permit.

The foreign banks operate mainly in the foreign exchange losh market, with very little of their assets or liabilities in doniestic currency. No more than 10 per cent of total deposits are held in Won, South Konea's unit of currency. The major source of funds is the overseas head offices of the hanks. This accounts for about 60 per cent of operating funds, with the remainder coming in foreign exchange deposits from South Korean sources.

The foreign banks' total foreign exchange lending within South Korea in 1978 reached U.S. 819m. more than double the level of the previous year. In contrast, foreign exchange loans by domestic banks was However. domestic deposit base of the local banks at the end of 1978 was Won 7.490bn more than 80 times larger than that 7,490bn more

of the foreign banks. One of the main reasons for the concentration of foreign banks on foreign exchange lending-apart from its greater profitability-is the acute shortage of domestic currency they

base, their only access to Won funds is by sale of securities in the market, or by availability of the swap facilities they have with the Bank of Korea for the conversion of foreign currency. As in many countries, the foreign banks have no access to rediscounting facilities with the

central bank. However, they are required to maintain a certain range of overbought positions in foreign currencies, and any funds above the upper limit must be sold to the central bank or Korea Exchange Bank in return for Won. So they may increase their Won funds by building up foreign exchange holdings, but in the process eventually supply lendable exchange to the rival official

Guidance

Even in their exchange lending the foreign banks are strictly controlled. They are subject to the foreign exchange requirement programme established yearly by the government to regulate the and approving any diversifica use to which foreign funds are put. The programme channels foreign funds into areas which are deemed to have high priority in the development of the national economy.

Therefore all areas of retail banking in South Korea are subject to a very large degree of government direction or administrative guidance." The degree to which this is entrenched is best illustrated by the "primary banking system" which has been set up to supervise corporate lending for the past two years.

The nominated purpose of the primary banking system is to improve the financial operations of major companies by exercising systematic control over all loans supplied to them. The target companies of the pro-

Won 5.0bn and those which were members of a business group which had total group borrowings of more than Won 10bn and which themselves had borrowed more than Won 100m.

Each year the Bank of Korea designates those companies which are subject to the primary banking system and a primary bank is nominated for each such company, plus a limited number of secondary banks. After the only a primary bank or secondary bank of a compancan provide loans to that com pany. The target company compelled to have one primar and perhaps six secondary bank

including foreign banks. The primary bank must esta! lish a ceiling on the working capital loans to a company, wit a this ceiling subject to Bank | S Korea approval. In addition, ti company must submit a writte financial development pr gramme to the primary ban every two years, which the bank must then oversee. The bank has the obligation to hell a company improve its ne. worth by restraining dividends tion moves or foreign borrow

No institution can provide loans of more than Won 500m to a target company without the approval of the primary bank And, in the event that a com-pany finds itself in financial difficulties, the primary bank will move in to devise a scheme

to salvage the operation. Because foreign banks as well as the domestic banks must participate in this system, the overall effect is to give vest discretionary powers to the Bank of Korea through the primary banks. And it is through financial "guidance" such as this that South Korea has been able consistently to development targets its planners have set year by year.

Ron Richardson

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Energy

The search for oil

goods that her industry will pro-The second is to ensure stable supplies of natural re-

sources.
The South Korean planning authorities are probably at least as worried about the second of these problems as they are about the first, although they reluctant to discuss it much in public. Within the resource sector energy constitutes the most serious area of concern, with attention focusing on the country's rapidly-growing

imports. Oil imports provided 55 per

SOUTH KOREA'S hopes of cent of South Korea's total again by the early 1990s (reach estimates, could contain shortly for station number seven sustaining a 10 per cent annual energy needs in 1975, but were ing 130m metric tonnes in terms deposits of about 2bn barrels, and eight. (These figures fall to growth rate up to the early supplying 60 per cent of the of anthracite equivalent by 1990s depend on the solution of total last year. A one-year-old 1991). two external problems. One is long-term projection of the South Korea's energy situa-to find enough markets for the South Korean energy picture tion could become easier if the ment. Institute (the latest material on the subject that is officially available) suggests that dependence on imported oil will reach 64 per cent in 1981 before, it is hoped, tailing

off in the late 1980s. For this to happen, however, the country will have to be successful in the various energy diversification and conservation programmes on which the government is embarking. Even success is achieved in these fields, oil imports in 1981 will

prepared by the Korea Develop- country discovers oil resources on its lown territory. The this happening depend chiefly on what happens in the continental shelf area lying between South Korea and Japan where drilling for oil should start in the not too distant future following ratifica-Dies of an agreement providing tion of the area.

The so-called Block Seven are: covered by the Korea-Japan agreement is known to contain oil-bearing strata and, he double what they were in contain oil-bearing strata and, 1975 and will roughly double according to some private

known until the drilling pro- ment's original program gramme begins. This could be before the end of 1979, depend-ing on how quickly Japan and Korea agree on the choice of a single operating company to conduct exploration.

If the oil search in Block Seven yields disappointing results (or, alternatively, if it is indefinitely delayed by political Seven or other problems) South Korea. will be faced over the next few years with a rapid decline in the extent to which she can rely on domestic energy resources. Production of anthracite coal (35 per cent of the country's total energy resources in 1977) is expected to fall gradually over the next decade, as is consumption of firewood and charcoal for domestic heating (9 per cent of total energy consumption in 1977).

Hydro-electric power genera-tion may rise substantially over the next few years since less than half of South Korea's hydro-electric potential has been developed so far. However, the total contribution of hydropower to South Kores energy needs is barely 1 per cent, so that even the doubling of capacity would make little difference to the overall situa-

The rather gloomy prospects for domestic energy resource development point, in the view of the Korean Development Institute, to an increase in the nation's reliance on imported energy resources from about 55 per cent of total energy con-sumption in 1977 to about 90 per cent by 1991 (assuming that the Gross National Product and the amount of energy consumed both grow at about 10 per cent per year through the 1980s).

The problem which faces South Korea therefore becomes one of developing imported energy resources other than oil. to avoid a situation in which the nation could be held to ransom hy oil producers. A second priority is to diversify sources from which the country imports crude oil; or, failing this, to enter into political or economic relationships with oil producers of a kind which might help to guarantee supplies.

heavy emphasis on nuclear power generation. The single pany (NIOC) also happens to nuclear power plant which is be partner with the Ssangrous operating at present (the Kori 1 group in the construction; of plant) has a generating capacity South Korea's fourth major-oil of 595,000 kW, representing refinery, which had been due to about nine per cent, of total electric power generating capacity but only about 1 per cent of
overall national consumption of
energy.

1979.
The question about the
Esangyong-NIOC project which
is bothering the Government is

Whether oil is actually present add up because one nuclear in the area, however, will not be plant project in the governcancelled after numbers had

been allotted to later plants.) On the strength of this pri gramme the Development Institute estimates that nuclear power may be supplying 10 per cent of South Korea's energy needs by 1986 and perhaps more than 15 per cent by 1991. This scemingly ambitious figure reflects the government's con-fidence that the development of nuclear energy will not be held up by the environmentalis! apposition that has caused prob lems in the West (and in Japan where the difficulty of getting local government authorities p approve power station projec has forced the government scale down its targets several

Nuclear

Heavy reliance on nuclear power will make it necessary for South Korea to sign long-term contracts for the supply of uranium instead of relying on spot" purchases of enriched uranium as it has done up to now. The Ministery of Energy says it is "working on " this matter but the first long-term contracts have yet to be an

Next to nuclear power, South Korea expects to rely on coaimports as the main alternative to oil. The Government is starting to think seriously about way: and means of ensuring stable and long-term supplies from producers such as Australia and the U.S. but has not yet managed to sign long-term con tracts with any major supplier There is a wistful awarenes

that China would be a natura source of imported coal political conditions permitte With or without China, South Korea hopes that coal imports will be meeting 17 per cent of its energy needs by 1986 and as much as 22 per cent by 1991.

Diversification of oil supplies became a highly-sensitive topic

in Seoul in the aftermath of the Iran crisis and is still a matter on which officials at the Ministry of Energy would much rather say nothing at all. Iran was the source of roughly 10 per cent In seeking to promote imported energy sources other fore its oil industry ground to than oil South Korea is placing a halt at the end of 1978. The National Iranian Oil Cou-

begin production at the end of

Four more stations are under not whether money will be furth construction, however, and concerning to complete the project of the necessary funds tracts are expected to be placed (almost all the necessary funds

CONTINUED ON NEXT PAGE

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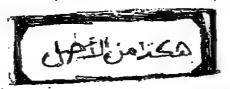
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Exports given every encouragement

North East Asia as one of the cent in the early 1980s and 12 four "New Japans" whose per cent in the later 1980s, but export growth poses a threat to even at this rate Korea would the survival of some branches still be increasing its overscus of American industry. Most trade at roughly double the people in Scoul would probably expected world average. In the gerous, if flattering, exaggeta- exports grew at an average tion. The value of Korean annual rate of 40 per cent. exports in 1978, at \$12.750 was One reason why South roughly one eighth of the Korea's exports have grown so Japanese export figure, while fast is that they started from Korea's surplus with the U.S. at a very low base. In 1963, the \$663m, was less than one-tenth year that the present regime of Japan's. This does not alter came to power, overseas sales of Japan's. This does not alter the fact that exports are overwhelmingly important to Korea probably more so than to any other developing nation with an economy of comparable size.

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Professor 1

or toroga k

About 35 per cent of GNP is and only about one eighth of accounted for by exports, and typical European levels. Startthe percentage has been rising ing from a low base, however, since the late 1960s. Inevitably, therefore. Korea's economic explanation for Korea's sub-strategy has been one of export- sequent export achievement. conomic growth strategy fol- economic system the Govern-lowed by Japan in the first two ment has done lowed by Japan in the first two ment has done everything decades after World War Two possible to "make exports fly"

more slowly over the next kets; encouraging industry to ductors (France), decade or so than they have sell its products at lower prices Korea's strategy decade or so than they have sell its products at lower prices Korca's strategy for dealing exports to capital and skill-done up to now. Exports, if overseas than those charged at with protectionism is four intensive heavy industry protection they fulfilly the Government's home; and ensuring a supply pronged. In the short term it ducts will puse a serious challenge.

have already been disbursed)

but whether NIOC will be able.

to fulfil an undertaking to

Domestic energy supplies:

Imported energy supplies:

Nuclear

* Estimated:

Total

Wood and Charcoal

Hydroelectric

view this designation as a dan- period from 1965 to 1977 Korean

were worth a mere \$87m. Even today Korea's exports on a per capita basis are less than half those of Taiwan (a little over \$200 compared with over \$500) does not provide the full

supplying a large home market). for the economy as a whole and

CONTINUED FROM PREVIOUS PAGE

to fulfil an undertaking to supply the refinery with oil. If cause the Government to think the Hyundal group and twice about the wisdom of de Pertamina of Indonesia is

itself in the awkward position veloping the refinery industry already on the stocks, lowever, of having to look to another on the basis of joint ventures and seems likely to go ahead

SOUTH KOREA'S ENERGY NEEDS

(units in thousand metric tons of anthracite equivalent)

% 1981* %

4.548

63,738

1.770

Another Government device to promote exports has been the creation of General Trading .Companies on the Japanese model. These are set specific sales targets and in return enjoy certain financial and administrative privileges-besides the prestige of the much coveted "GTC" label.

The main threat to the further is the rise of protectionism in ing that export targets are met, claims to be very worried indeed. The U.S., which is Rorea's largest market (tal ing nearly 50 per cent of the total. maintains restrictions on Korean textiles, footwear and colour TV sets, while Japan restricts silk

producing country or to the in- between local business groups whatever the fate of the NIOC-ternational majors to cover the and State-owned oil companies Ssangyong venture.

of producing countries. Another

project of this kind, implying

1991 -

2.127

20.670

130.17:

7,885

57.884

7.0

SOUTH KOREA was classified target, will show a 22 per cent by a team of investigators from the U.S. House of Representatives Ways and Means Committee which recently visited militer which recently visited growth rate will show to 14 per Month Rest Asia at a case of the c also shows considerable skill term export financing of the kind now provided at preferenin exploiting loopholes within export restraint agreements, but tial rates by the Korean bankthis, naturally enough, is not part of the officially admitted ing system to medium and longterm export financing. strategy for dealing with the The third "leg" of the Korean Government's strategy for fight-

> A second way in which Korea hopes to prevent protectionism from damaging its exports is by shifting the pattern of its trade rapid growth of Korean exports. industrial goods. Textiles, from light industrial to heavy western markets—a problem about which the Ministry of Commerce and Industry, which are expected to be downgraded by the late 1980s to about a 20 per cent share, while the general category of machinery exports should increase from 15 to

Korea is already beginning to promote exports of simple industrial plant such as cement products, leather footwear and and sugar refining equipment many different varieties of fish. (these may be worth as much European countries maint in a as 51hn this year, according to decades after World War Two possible to make exposs and decades after World War Two possible to make exposs and decades after World War Two possible to make exposs and decades after World War Two possible to make exposs and where the growth of industry as one U.S. banker puts it. This import of Korean products, Industry, compared with where the growth of industry as one U.S. banker puts it. This import of Korean products, Industry, compared with was based, first and foremost, on includes setting export targets ranging from textiles to black 1978 figure of around \$320m. It and white TV sets (in the UK), is recognised, however, that the and white TV sets (in the UK), is recognised, however, that the watches, radios and semi-con- switch from labour-intensive, low technology light industrial

Korea's heavy dependence on

crude oil imports as an energy

source has caused problems for

the Government's price stabilisa-

tion campaign, besides constitut-

ing a worry in the longer-term

recent increases in crude oil

index this year is estimated at 1.04 per cent while indirect

These price effects have

some means of insulating the

economy from fluctuations in

world oil supplies, but there is

no indication that Korea has an

The direct impact of

on the wholesale price

not a new priority as can be seen from the fact that export dependence on the U.S. has fallen from over 50 per cent in 1968 to just over 30 per cent today. (Similarly Japan now takes only 21 per cent of Korea's exports, compared with 38 per cent as recently as six years ago). Korea has been successful in stepping up exports to the Middle East

(mainly in the form of materials for the spectacular series of contracts won by the Korean construction industry) and is now looking hopefully at Latin America. The Government has begun to show strong interest in the development of trade relations with China, which is regarded as

Korean products such as steel and coment and fertilisers, and as a natural supplier of fuels and raw materials, notably coal and oil. China, however, has shown no sign of wanting to do business with Korea. The possibility of instituting "indirect" trade between the two countries with Korean products being shipped via llong Kong or Singapore is being considered in some quarters, but even this appears to be a non-starter for the time being. Japanese trading con-cerns, which might well act as Intermediaries in such business, take the view that China will not embark on trading relations of any kind with Korea until it has succeeded in its current campaign to establish trade links with Talwan.

The Government's last weapon against western protectionism is the paradoxical one of liberalising Korean imports. effects are put at another 0.52 Korean Industry was heavily per cent.

Korean Industry was heavily protected against imports up to some two years ago (and is still driven home the need to find extremely well protected in a number of sensitive areas such as motor manufacture). A programme of liberalisation, however, got under way officially in 1978, with the result that the Government now claims that 68 per cent of Korean trade has been liberalised on an item

ing protectionism involves a search for new markets. This is

The fish market at Pusan. Fish products are among a long list of Korean exports that are finding difficulty in overcoming restrictions in overseas markets.

1980s, bringing the degree of liberalisation (again on the official basis of the number of items freed) to over 90 per cent by

the mid-1980s. Proud

The Koreans are proud of the fact that they have acted "spontaneously" in starting to free their exports (unlike Japan, which had to be pushed into import liberalisation by external pressure). They hope that free-ing imports will not only combat internal inflation and increase the competitive competitive strength of Korean industry (the main economic argument in its favour) but also put Korea in a strong "moral" position vis-

straints on Korean exports. programme, to which the industry. Government appears to be grown less rapidly than was at

Exports

basis. Another round of import highly sensitive, is that too fast one time expected because of liberalisation is due in 1979 and a removal of barriers could inmore will follow in the early crease the flow of Japanese demand, while exports of cement the huge backlog of domestic demand, while exports of cement crease the flow of Japanese and of certain food products goods to Korea, at the expense of less competitive exporters such as the EEC. The current during much of 1978 in order to keep the home market system, under which quotas are supplied. allocated to individual countries, enables the Japanese export drive to be kept within bounds. Import liberalisation served to increase Korca's visible trade deficit substantially last year, but this was in line with the Covernment's overall policy of running a moderate current

with capital imports. Korean exports face one other growth apart from the refusal of foreign markets to admit Korean goods. This is the rapid and continuing rise of Korea's ards trading partners who are own manufacturing costs and thinking of planning further rethe apparently insatiable the apparently insatiable demand from the local market A snag about the liberalisation for the products of Korean

SOUTH KOREA'S FOREIGN TRADE, SM.

' Target

6,674

secount deficit and balancing it

The Ministry of Commerce and Industry clies supply shortages as one reason why Korcan exports started 1979 at rates reach the target for the year, while imports were running at levels much higher than called for by the target. The Ministry also claims to be concerned about an overall cost differential of around 20 per cent between Korea and Taiwan in the manu-

facture of light industrial goods. Such facts provide a corrective to the alarmist view that Korean exports are poised to over" western markets. They do not mean that the Korean export drive is about to run out of

10.1 16,416 40.623 answer to a problem which has -73,472 74.0 132,911 235.710 90.6 baffled almost all the industrial 161.436 100 260.216 nations. Source: Kores Development Institute

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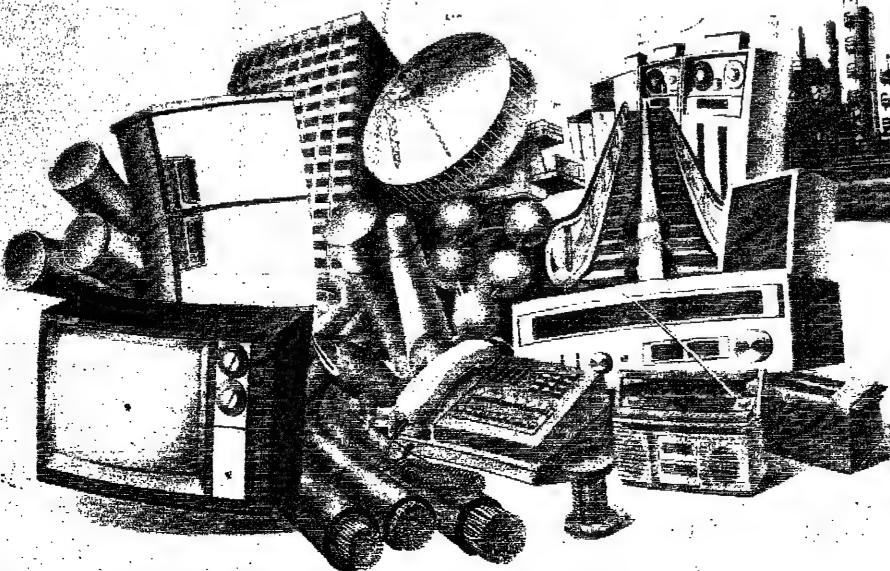
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Agriculture

Planning pays off

KOREAN FARMERS have come a long way from traditional despondency in recent years, and are now faced with the new challenge of adapting themselves to a fast-industrialising

The country is now self-

But to keep up with the growing demands for meat, milk and vegetables, and to cope with a continuing drain on the farm labour force as a result of the country's rapid industrialisation, the Government is actively promoting the transfer to a new

concept of farming.

Until the mid-1960s, South
Korea, a traditionally agrarian society, had been suffering from chronic poverty on the farms. Every spring the farmers went through a period of hunger before their barley crop was harvested. The rice paddies were so poorly irrigated that they were mostly at the mercy of the weather. More than a third of the rural families, which accounted for 56 per cent of the entire population, were forced to subsist on farms less than 0.5 hectares each in size. than 0.5 hectares each in size.
To help feed its overcrowding population, the country had to import large quantities of rice and other food grains every year under the U.S. aid programme.

The fundamental problem was the limited amount of the nation's arable land—less than a quarter of the entire terri-

when the Government of President Park Chung Hee initiated a series of five-year initiated a series of 1962, the economic plans in 1962, the economic plans in 1962, the agrarian sector was virtually that the price support is vital that the price support is vital in narrowing the disparity becomed while emphasis was ignored, while emphasis was in narrowing the disparity be-placed on industrial develop-ment. But beginning with the which is certain to widen again ment. But beginning with the which is certain to widen again third five-year plan which as industrial wages are increasing attention was paid to agriculture,

The Government is now enmaking rural development one of the plan's chief goals. Top priority was given to increased there is a limit to rises in farm production of food grains, income. Although non-agriculespecially rice, which repre-tural income—such as that from sented nearly a half of total off-season work at factories food consumption by weight.

Attractive and sporty

that's the Pony

15.2 per cent increase in rice cent by 1990. To this end, it is production was achieved, that pushing ahead with a property total of 8m tons rice programme to disperse industrial duction moving from an average far are not satisfactory. yield of 4.94 tons per hectare-

the world's highest figure, top-ping even neighbouring Japan. This success in boosting rice food, the income gap between main to the cultivation of high-cities. The rural population agriculture and industry has yielding local strains—tongil, which accounted for 55 per cent food, the income gap between agriculture and industry has been substantially narrowed, yushin and miryang. The new of the national total in 1965, varieties covered 70 per cent was down to 31 per cent in 1978, of the provision of electricity have been greatly and this room is likely to be 76. have been greatly and this year, is likely to be 76 per cent. Improved irrigation has also

> use of agricultural chemicals. Apart from rice. South Korea most of the city-both has achieved self-sufficiency in are young people.

barley, another important food grain. But the overall domestic grain supply was 25 per cent short of requirements because only negligible quantities of wheat and corn are cultivated wheat and corn are cultivated at home. Wheat is an uneconomical crop in Korea because of its long growing season. which prevents the double cropping that is possible with rice.

Factor

Another important factor behind the increase in rice output has been the Government's price sells them to the consumer.

Although the accumulating

budgetary deficit accruing from the price support programme has recently led to a call for its abolishment, the Agriculture Ministry intends to continue it for several years, if only for rice

Ministry officials emphasise

couraging farmers to increase their off-farm earnings, since rose to 28 per cent of the In 1975 the country succeeded farmers' total annual earnings in reaching self-sufficiency in last year, it was still inadequate. rice, in 1977 an unprecedented The Government aim is 50 per

plants to rural areas: results so

Another major problem facing Korean agriculture is the growing shortage of labour due to the continued migration to the ther to 20 per cent by 1991.
As a result, the proportion of

agriculture workers in the total contributed to the increased rice working population dropped production, as has better use of fertilisers and the widespread low 40 per cent last year. What makes it worse is the fact that most of the city-bound migrants

The Government sees gradual mechanisation of farming as the only solution to this problem. To promote mechanised farming, the National Assembly last year passed a special law pro-viding financial assistance in the

But given the small size of unit farms, less than a hectare per household, and the irregular shapes of paddy fields (only 18 per cent of which have been rearranged into regular patterns under a Government programme), mechanisation is still far off. At present, as the principal farm machine there are 210,000 locally produced small power tillers—one for every 10 itouseholds. The government plans to increase their number to 500,000 by 1986. Meanwhile, it will also increase rice transit will also increase rice trans-planters and harvesters (which are rare now), to 120,000 and

dairy products. Last year, for the first time, beef and mutton had to be imported, mostly from

The Government is extending loans and tax benefits to encourage livestock and dairy farming. There are a number of constraints, including vast amounts of investment needed to develop pasture land on the hillsides which abound in Korea and the need to import most of the required feeds. Nevertheless, the Government has a longrange plan to increase the population of imported beef cattle from the present 47,000 to 726,000 by 1991 and dairy cows from 194,000 to 858,000.

One unique feature of Korean Another new direction for Government's agricultural policy is the promotion of the livestock industry to meet the livestock industry to meet the dates products. Lest year for ment agricultural or movement, launched in 1970 at the initiative of President Park.

An integrated rural development of the contract of the co

form of low-interest loans to Australia. This year, meat instrumental in galvanising the far mers in buying farm imports are expected to increase farmers into improving their machines.

Recomplese to 72,000 tons, costing about living environment and productivity, then raising their incomes. Elected village committees select projects, which are implemented chiefly by voluntary labour with some Government assistance in the form of cash and building

materials. Saemaul Undong started with such simple projects as improvements to roofs and drains; moved on to infrastructure projects, including farm roads, small bridges, electricity and piped water; and then to income supplement projects such as joint livestock raising and sericulture. Its latest project is intervillage co-operation for regional development. The movement has now extended to urban neighbourhoods and factory workers to mobilise the entire nation in self-help pro-

Samuel Kim

Foreign investment

The rush slows down

labour supply, still continues to flow in now chiefly because of the rapidly growing local con-sumer market. For the third consecutive year foreign investment arrived at an annual rate of around \$100m in 1978. This year's Government projection is

for another \$100m. Since the Government began encouraging foreigners to make equity investments in 1962, a series of five-year economic plans began, a total of just over 31bn has been approved in 891 cases; \$873m had actually arrived by the end

Government the decided to open the door to foreign investment as a means of financing its ambitious economic development plans and introducing technical know-how, the major attraction Korea could offer was a cheap labour market. There was an abundance of literate, hard-working, easily trainable and dextrous labour available at \$30 a month

starting wage.
After South Korea normalised After South Korea normalists of Government officials interpretations with neighbouring relations with neighbouring relations with neighbouring that the average wage level for that the average wage level for semi-skilled workers in Korea lord, in 1965, there began a semi-skilled workers in Korea lord, in 1965, there began a lord, in 1 sudden rush of Japanese investors into the country. Most of the Japanese investments were for producing labour-intensive such as textiles for to Japan and other

The Korean Government then enacted a special law governing the introduction of foreign commercial loans, equity investments and technological know-The law, still in force. provides for a five-year tax holiday followed by three years 50 per cent tax reductions to foreign in states. It also guaranteed the unlimited remittance of dividends or profits and the repatriation of principal after two years of operation. It described as one of the was described as one or the most liberal foreign investment laws in the world.

Benefits

The tax benefits, which apply to both corporate and personal incomes taxes, customs duty. property tax and acquisition tax were attractive enough to induce investments by Americans. Their money went mainly into the labour-intensive electronics assembly plants and such chemical lines as fertiliser manufacturing and oil refining. In the league table of coun tries Japan came first with 59 per cent of all foreign investment approvals by the Korean Government in terms of cash, totalling \$584m in 665 opera-tions. The U.S. followed with \$194nt in 116 projects which accounted for 19.2 per cent.
Among the Europeans, the
Dutch have the largest invest-

ments in Korea-\$73m covering four cases. They include a joint venture petrochemical project by Dow Chemicals of the Netherlands. West German in-vestments total \$19m covering 18 cases, French \$11.3m (five cases) and Swiss \$12m (seven). Investments by British companies amount to \$11.6m in five projects. They include \$5.6m by Hill Samuel for a 50 per cent equity stake in a merchant bank: \$4.1m by Lazard Brothers, also for 50 per cent interest in another merchant bank: \$1,050,000 by Lucas CAV for 70 per cent ownership of a plant manufacturing nozzles for diesel engines: \$600,000 by Spirax Sarco of Cheltenham, Gloues., for 60 per cent share in a steam controller manufacturing plant; \$208,000 by Foseco Minsep of the Midlands in a factory producing chemicals for foun-

dry and steelmaking.

The last three are in joint ventures with Korean partners to produce and market their products locally. "We came here in order to get into the Korean

FOREIGN DIRECT investment, market, which we found is large, which was once attracted into growing and buoyant," explained. South Korea by the low-cost Christopher J. Ball, president of Spirax Sarco Korea.

His company plans to start producing in June at its plant in Bubyong, just outside Seoul. It hopes to export to other Asian countries from next year.

A. C. Wyatt, project manager of Lucas CAV overseas operations who is helping set up the CAV Rorea plant in Changwon on the south coast, expressed a similar view. "As a multinational company, we had been looking for an opportunity of building a plant in Asia and saw in Korea the potential of future growth," he said.

Both Mr. Wyatt and Mr. Ball said that labour supply is no problem in Korea, but except for manual workers, labour is no longer so cheap.

A machine operator should be getting the equivalent of \$350 to \$400 i month, compared with g corresponding equivalent of \$550-860 in Britain, while the salary for middle management people, \$150 to \$800 a month including bonus and other fringe benefits, is about the same as in Britain.

Hong Keng and Singapore and about egral to or slightly above Taiwan rates. Thus Korea seems to be fast losing its once large edge over other Asian countries as the cheap labour market for foreign investors: this is the result of successive 20-30 per cent wage increases

in recent years. This is reflected in the sharp decline of new investment in

labour - intensive industries. Indeed the Government no longer approves foreign investment in textile industry because Korea's existing mills have trouble kesping up their exports

because of quota restrictions by major importing countries.

According to Mr. Kang Shin-Joe, director general of the Bureau of Foreign Investment Promotion, the Government welcomes the following projects: ■ Large-scale complex projects, such as metals, machinery and electronic equipment, which require high level of tech-

Export-oriented projects which will contribute to exploring overseas markets; projects which contribute to

the development and effective use of domestic resources; ● Import substitution projects. Mr. Kang said the latest trend is investment in food processing, and in heavy industries such as

chemicals.

venture to produce snacks and instant noodles, Nestle of Switzerland in a joint project to produce beby foods and high protein foods, and the Lotte confectionery group of Japan in a .milk and meat processing

venture. Brown Boveri of Switzerland is known to be negotiating with Seoul's Daewoo group for a joint venture to manufacture power plant facilities, and Babcock of West Germany for a project to produce power plant boilers. Volkswagen of West Germany is reported to be seeking a Korean partner for production of small cars. Imperial Chemical Industries and Dunlop of Britain are also

said to be looking into invest-

Although there is no legal limit to the share of foreign investors in an enterprise, the Government allows, in principle, up to 50 per cent equity. In the following cases, how-ever, majority or 100 per cent foreign ownership may be

authorised:

Projects entirely exportoriented and at the same timecontributing to raising the technological level of the

particular industry;
Projects with imported technology that is highly sophisticated and needed by the economy;
• Projects by multinational cor-

porations that are permitted 100 per cent ownership in other countries because of their exclusive production techniques, business operations including market control on a global basis, or patent rights;

 Investments that are beyond remicals.

This year CPC International the capabilities of capital requirements of capital requirements of produce snacks and ments, technological sophistics ments, technological sophistics. tion or market opportunities:

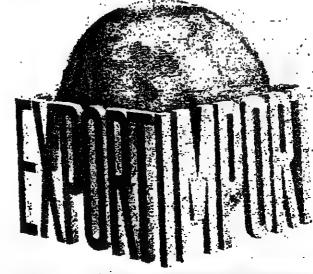
• Investments from the countries with little previous participation in Korean economy.

The minimum amount of foreign equity investment authorised is \$200,000, but for investment electronics and machinery in dustries is reduced to \$100,006. In the industrial engineering field \$50,000 is the minimum is quirement.

South Korea does not permit any portfolio investment in the stock market by non-resident foreigners. Even for residents no profits can legally be repatriated out of the country.

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On the last four pages of this Survey IAN HARGREAVES, who has recently visited South Korea's major industries, outlines the country's industrial strategy and looks in greater depth at individual sectors.

A second industrial revolution

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dragging a war-ravaged country, volume and low added value inery complex near Buson, deals were with Japan and lacking raw materials and with goods; and the feeling that com- where the dust is still settling another 48 with the U.S. The an economy based on primitive petition from other developing on the 51 plants already comagriculture, to a semi-industrialised condition. That meant more technology-intensive areas,
using cheap labour to develop. The strategy is for the heavy
light industries netably testiles,
and chemical industries to
started to turn out machine
tools, construction equipment,
front and because some comconsumer electronics and metal fabrication industries.

goods such as cutlery, clothes per cent. televisions before its trial planners started to argue that Korea must rapidly start emergence of Korea's motor to reduce its dependence upon and shipbullding industries; joint ventures with advanced the light labour-intensive indus- but many features of the tries upon which its success was

There are three main reasons described. for this decision: the awareness : What Korean planners cell 255 in Korea (there were 42 Hyundai International Daewoo, that Korean labour is rapidly the "machinery industry," the electrical agreements and 38 Samsung, Daehan, Kangwon, pricing itself out of the cheap subject of four promotion plans petrochemical—the other key and Hyosung.

SOUTH KOREA is now in the assembly market (wages costs in the last eight years, is only developing areas). In spite of Impressive progress has all overcome if this and other industable to count on process of bringing about its rose by over 30 per cent in both now moving from the planning the Koreans' urgent desire to ready been made in areas such trial turnets are to be met. In of applications

omic theorists and indus this policy are already planners started to argue apparent for example, the

strategy are far less well defined and less easily ., and less easily

account for 65 per cent of manu- tools, construction equipment, facturing output by 1991, com- boilers, nuclear power station pared with 48 per cent last year, components, railway rolling sold them outdated technology Hardly had the country and for light industries to stock, motor components, trans- of limit adapted to its success in selling decline from 52 per cent to 35 formers, turbines, cranes, markets, stock, motor components, trans- of limited value in export er cent.

Some of the implications of everything in heavy industrial production, involving a growing number of technology-licensing agreements and, less frequently, into 104 cases of technological

within 20 years. tectionist restrictions in adheart of the development is the Europe at the expense of Japan,
The first revolution involved canced countries against high Changwon integrated mach well over half the technology Koreaus want to make this countries will be less keen in plete, but where another 150 switch partly to reduce their more technology-intensive areas. factories remain to be built trade deficit with Japan but front and because some com-

> So far the development of the machinery sector is very that it will be dominated by seven companies, which by 1981 countries. Last year the sales of \$6.1hn in this field and machinery industry entered account for 60 per cent of the industry's cutput. They are inducement out of a intal of Hyundai Heavy Industries, 255 in Korea (there were 42 Hyundai International, Daewoo, Industries,

Hyundai has recently joined Daewoo in contention for both substantial domestic orders and exports, which the Korea Development Institute expects to reach \$100m by 1991. Hyundai is reported to be close to a significant export deal with Greece, and at home, the industry is now almost self-sufficient, with the help of foreign technology.

panies feel the Japanese have Output of heavy electrical machinery (generators, transformers, motors, etc.) reached \$222m last year, still signifying a small industry, but twice as large as the year before. More important from the Korean point of view, exports and imports were roughly in balance; in electrical sector Korean industry is in a position to meet

Imports

In some other areas, this is far from the case. For machine tools, the country relied on imports for over 65 per cent of its needs last year, and outside the simple lathe sector the dependence on foreign goods was even higher. In chemical and construction machinery. Steel: domestic needs have grown so Shipbuilding: fast that the level of self-sufficiency has actually slipped back Petrochemicals: from 37 per cent and 9.5 per cent in 1974 to 17.8 per cent and Electronics: 7.3 per cent last year. On the other hand. Kores aiready has a healthy surplus in the agricul- Textiles: tural machinery trade.

The Government's goal is to achieve an overall level of selfsufficiency of 70 per cent by 1981 in preparation for a major export assault in the fifth fiveyear plan starting in 1982. It is interesting in this context to MACHINERY INDUSTRY: IMPORTS AND EXPORTS IN 1978 note the general policy of Korean industrialists. where their export base is tiny, in spreading their products into as many markets as possible in order to gain maximum experience and to prepare distribution and marketing arrangements. Hyundai Motor Is not untypical in exporting to more than 40

There are huge problems to

second industrial revolution 1977 and 1978); the growing pro- to the operational stage. The strengthen their links with as railway rolling stock, where the short term a major difficulty vacancy, and in an area like is the shortage of investment funds in Korea because of the new labour is a big anxiety for Government's anti-inflationary some companies. This shortage Government's anti-inflationary tight-money policies. Korean businessmen are used to high high wage inflation as employers interest rates (18-20 per cent), fight to retain staff. Contrary but everyone is complaining about shortage of funds at the moment and some companies are talking of cutting back development projects by as much as 30 per cent this year if the reins are not eased. The shortage of working capital has also aggravated an always tight position in relation to component stockholding, which is an important reason for many indusshortage of key raw materials in the early part of the planners know they must this year.

KOREAN INDUSTRY: MAIN GOALS FOR 1986

Target

components

3500m exports

Production

2,281 1,459 221

Figures include shipbuilding and electronic products.

Source: Korea Society for the Advancement of the Machine

Industry.

\$10bn exports

(TOTAL EXPORTS \$50bn)

20.6m tonnes capacity Annual capacity of 6.5m dwt

Annual capaity of 2m units

\$10bn exports, 10 per cent world market share

Annual capacity of 1.5m tonnes

of ethylene \$9hn exports and 85 per cent localisation of product

Annal capacity of 40m tonnes

Self-sufficiency in copper, lead

zine and aluminium ingot

1,230 871 374

More underlying problems are . the shortage of skilled labour, industrial strategy. in spite of a recent decision to increase post-high school college places by 40 per cent last sluggishness of the

Motor industry:

Ceramies:

Cement:

Machinery:

Non-ferrous metals:

Sector

General machinery

Electrical machinery

Transport equipment

Impressive progress has all overcome if this and other indus- able to count on a thick pile Changwon the high demand for of labour is also the reason for to the Japanese model, labour turnover in Korea is high-3-4 per cent a month, according to the Economic Planning Board. Even so, the typical male indus-8250-8350 a month, including honuses. A function of the shortage of skilled technicians and scientists is the still inadequate level of spending on than a quarter of that in European countries and something

> Coupled with general worries about the price of oil and the year. Employers are no longer economy, there is much to sug-

reverse quickly to underpin the

Korea's industrial transforma-

In pursuing its objectives, the Government's weapons are an armoury of import protectionism in the form of high tariffs unwanted (although the theorists of the planning Board are adament that Korea is moving to an open and liberal trading pattern more like that of Sweden than that of Japan) cheap loans for companies investing in preferred sectors, tax incentives and measures to encourage the inflow of foreign technology.

But probably more significant measures is the fostering of the nation's economic and industrial consciousness through, among other means, the Factory community) Szemsui (new movement. Th This modelled on an earlier successful drive to get farm labourers to work barder and more cooperatively, has, according to company directors, produced improvements in labour productivity, in return for which companies invested heavily in welfare and recreational facilities for their

Saemaul is an important part of a set of national attitudes, stemming from the common desire to be economically superior to North Korea, which has so far kept. South Korea free of labour troubles. Al-though a classically capitalist economy, great effort is ex-pended by the Government in preventing ostentatious display of wealth (it is common for plant managing directors to wear the same uniforms as their operatives) and in attempting to reduce income differentials.

ธเลนี.

world ranking

155 973

" We are working for the next generation," is probably the most common philosophy one hears expressed in South Korea and it explains the willingness of most to accept the six or seven day week of 10-12 hour days. It remains to be seen whether the sheer effort and determination which has got Korean industry through its first stage of advance will be sufficient to power it through

Textiles

Still a major force

SOUTH KOREA'S industrial in the important long-range spite of rising wage on its That years old, which is twice the leaders have a habit of referring atudy of South Korea's economy strategy involves switching to accepted level of durability. In to their textiles industry as if to 1991 published less year by higher quality and higher added 1976, 31 per cent of spindles it were in a state of decline the glory of a former light in tule, is the feeling that with dustrial age soon to be forgotten wage cost inflation running in in the present generation's move into heavier and more Korea is soon going to be outtechnology-intensive sectors performed in lebour-intensive

This is misleading in 1978, industries such as textiles. textiles exports accounted for In particular, it is felt, 31 per cent of the country's Republican China, whose textile roreign exchange earner and the key provider of capital for into heavy in natural fibre products and the also employed 20 per cent of the workforce had the proofer reason for annual fibre products and the workforce people and the proofer reason for annual fibre products and the workforce people and the pe total sales of goods abroad. At \$8.98bn, the industry's export

As the table shows, the Government expects the industry to continue growing doubling the value of its exports in real terms between 1978 and 1981. The industry's own assessment, as disclosed by the Rotean Federation of Textiles Associations, is to export goods valued at \$6.50n fat entrent prices) in this rate in these markets if

1981 and \$100n-in-1986 ... In that year if the Governin the world ladustry rankings, into industries where restrictions do not exist. To world textile experts Some . That hald the Karan textile

decline, which is strongly felt in spite of protectionism and in

the Korea Development Instiexcess of 30 per cent 2 year,

industry cests are thought in Korea to be at least 65 per cent

poorer performance is the very great anxiety. Self-in a Korea, especially in the textures and electronics industries, at the growth of protections in Western markets. The EEC is limiting Korean textile imports to a 6 per cent annual growth rate and the U.S. to 6.5 per cent. The industry says it could comfortably expand at double

In that year, if the Government of the South Koreans are notisered to see an inferior of the exporting \$5000 worth of the restrictions will be eased.

The down to 20 per cent of that (more in electronics and motor to the down to 20 per cent of that (more in electronics and motor to the second to association. The volume of should not be punished for the antestile exports will still have sins of Japan. Their response lifted Korea from sixth place to the restrictions is to move in the world land.

world textile exports. Some - That said, the Korean textile manufacturers . have carefullykid plans for continued growth

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goods in volume into

and of the \$2,011m-worth of 200ds sem to unrestrated markets, Japan accounted for \$1.040m. That, the South Koreans believe, indicates that plenty of room remains in other developing-country markets: The Middle East is of growing importance.

This year, garment manufacture will account for 62 per rent of exports, in 1986 for only 50 per cent, with febries taking 37 per cent and yarns 13 per bent, Fabrica then, and principally synthetic fabrics, represent the real growth sector.

The preference for a future emphasis more on chemical than natural fibres is also based on the relative economics of Korean industry compared with other developing countries. All of Korea's wool and cotton are imported, whereas Korea's growing chemical industry growing chemical industry (described elsewhere in this survey) means that textiles companies will not be in the position for much longer where the chemical fibre manufacturers rely on foreign suppliers for 70 per cent of their AM monomer, 60 per cent of front caprolactam and all of their

30,600 spindles (simost 1 per compared with 33.4 per cent this cent of the total) are over 20 year.

restricted and 35 per cent of looms in the markets and pushing more cotton industry were over this unprotected 10-year limit and the situation is thought to have improved little tries took 49 per cent of Kotea's part of the Samsung group, says textile exports (\$985m to the the average age of its spindles U.S. and \$735m to the EEC) is seven-eight years and the company is now engaged in a modernisation programme.

> Cheil, biggest of the 27 wool textile companies in Korea, with share, provides an interesting counter irend to the general strategy of the industry's move away from garment production. Cheil is still expanding fabric production, but is also starting make garments with the aim of this sector accounting for 40 per cent of its \$400m projected sales in 1983,

> Mr. S. B. Lee, the company's president, admits that the requirement for an extra 35,000 workers, mainly women, in the labour market. The company's reasoning is that, died to restricted U.S. and European markets for 60 per cent of its woollen and worsted business, garment manufacture, with the right attention to fashion, offers

One market which does look good for the South Korean manufacturers is their own. Rapidly rising real incomes South Korea's influstrial tion of textiles in Korea, which planners feel certain that the bas risen 13 per cent in the last when the country's two years, is expected to double industrial economy could work again in the next eight-to 16.7 merely by rapidly processing kilogrammes per head in 1986. for re-export the raw materials This is equivalent to the level f others are rapidly vanishing.

The synthetics sector of the 1973. The result is that by 1986, forean textiles industry 43.5 per cent of the South Korean industry's output should the worsted/cotton companies, be sold in its home market.

ource: M	inistry of	Comme	ce and	Industry	-latest	estimate
Capacity per day)	299			520	- 730	950
Producti (tonnes)	102,000	107,300	105,800	182,000	255,000	333,000
per day) Acrylic SF	369	450	590	900	1,260	1,640
Producti (tonnes) Capacity	133.890	158,000	205.300	314,009	440,000	375,000
per day) Polyester l	1,010 F and SF	- 1,130	1,380	2,100	2,950	3,860
(tonnes) Capacity	(tonnes			147,000		
Nylon F Producti	en		٠.			
ratio of i output is synthetic	it ·	: : : 82	. 85	. 90	25	98
per day	iciency	1,120	1,380	. 2,100	2,950	3,860
Angual	production nes) 354	395	483	736	1.031	1,353
Product Chemical 1		3 1977	1978	1981	1399	. 1991

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31-32 Poland Street, London WIV 3DB. 01-437 8179	Natural fibre Man-made fibre All fibres	140 258 398	140 -302 442	292 167 589	247 469 712	300 611 911	. 366 794 1,160
Only if you want the best package arrangements,		1976	1977	1978 (Shn 19	1981 75 prices)	1985	1991
whether on business or pleasure, in SOUTH KOREA	Total value of exports . Fibre and yarn Fibric	2.74 0.28 0.65	2.9 0.33 0.68	7.36 0.38 0.99	4.86, 0.52 1.51	6.1 0.77 2,28	7.3 1.4 2.92
with extensions to all other destinations in the East Please write or call DISCOVER THE WORLD TOURS The specialists to the East	Finished garments Share of productin total expon		L89 50ry	219	2.77 1978- 11% 28%	3.95	1.46 1991 20% 40%
10 Gilbert Place, London, WC1A 2JD. Phone: 01-405 0747	Source: Minists	y of (Commerce	and Ir	61%	atesi (20%

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es in

Public ownership debate

Korea; a country characterised by a remarkably high degree of about

But there was an exception in the closing months of last year, when the country's three largest conglomerates, Daewoo, Samsung and Hyundai. all made it clear with varying degrees of vociferousness that POSCO returning a net surplus they would like permission to of \$40m last year against \$33m undertake the construction and operation of Korea's second integrated steel mill.

In the end, the Government ignored their bids and said that the number two mill, like number one, would be owned and operated by the Pohang Iron and Steel Company (POSCO), a company formed in 1968 with a 50 per cent Government stake and 50 per cent from a mixture of banks.

The Government was, of course, only following a general seeable future.

Arrangement of offshore finance

BALANCE SHEET

As at December 31, 1978

Foreign exchange business

Corporate financial advice

ASSETS

Lash and deposits

Note: div nunted

Loans in Work

Other Bosets

Marketable recurrings

Beneticial certificates

oans in toreign currency

LIABILITIES & EQUITY

Overdraits with banks

Won currency bonds

Total liabilities

Short-term notes payable

Foreign currency borrowings

Retained earnings
Total shareholders' equity

PUBLIC DISAGREEMENT steel industry trend for public between businessmen and the ownership of what is a highly in the ability and experience of national POSCO, which even the rival economic and social objectives, conglomerates agree produces steel of acceptable quality.

> Korea's steel industry. One is the industry's profitability, with of \$40m last year against \$32m in 1977; a second is the attractiveness to these con-glomerates, which are all heavy steel consumers, in having guaranteed supplies at controll-

able cost and quality. But a more general and underlying feeling among the hig industrial groups is that the Korean Government is being too cautious about steel and ensuring by its caution that the country will remain a net importer of steel for the fore-

Investment trust menagement

Results at the end of our second full year of operations are:

2,664 25,968 6,198 2,264 4,160 41,254

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barless things that make your life what it is. The

many basic, indispensable conveniences people every-

where require for a more comfortable community, a

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overtime to make these a reality for everyone who sees

more enjoyable place to live and work.

our potential and seeks our assistance.

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Asan Bay on the West coast of POSCO'S retained earnings and purchases of equipment from

on the same Japanese and Austrian technology upon which it based its initial integrated mill, but in view of the fact that subsequent stages of the first mill have involved large contracts with other countries, the field would appear to be open for the new project.

In the private sector, the rebuff over the second steel mill

2,124

1 380 545 2,604 1,478

A lount venture between leading Korean industrial corporation

Advice on negotiation and structuring of joint ventures

Management and underwriting of stock and bond issues

Income from lending Fees and commission

Projet from securities trading

Chairman & President: Jin Heung Kim

Exec. Vice President. Hak Su Yun

Peter R. Codwin, Suna Hwan Hone

Even, Vice President, Michael J. Bentley

Administrative expenses

Provision for ray Nei profit after tax

Non-Executive Directors:

HYUNDAI INTERNATIONAL INC.

AIMING IN MANY DIRECTIONS

TO ATTAIN BETTER LIFE GOALS

and banks, Lazard Brothers & Co., Limited and Barclays Bank

INCOME STATEMENT

For the years ended December 31

get of 12m tonnes a year capacity year took over Union Steel, pluses of other products. Last for the facility, which is vir- whose 0.7m tonnes of crude tually certain to be built at steel output last year made it the largest private sector steel-There were many reasons for the peninsula. The 3m-tonnes a maker. In the same year, the private sector wanting a year first stage, which is esti- Hyundai bought the small major stake in the future of mated to cost \$2bn, is due to Inchon Iron and Steel company, start operation by 1984, and it and Kumho, another general will be financed by a mixture of trading conglomerate, took over Kukdong Steel. Hyndai plans to foreign credit associated with increase the output at Inchon from 380,000 tonnes to 1m overseas. There is no indication tonnes, and Union Steel has yet whether POSCO will rely plans for a new 500,000 tonneper-year development.

Experience

These groups probably retain the hope that if they can acquire substantial experience of steelmaking they may be in the running when the Government comes to authorise a third coastal integrated steel complex, perhaps towards the end of the iext decade. Meanwhile, Hyundai, at least (as described in the article on construction), is also showing interest in taking both a financial and operational stake in the steel industries of other developing countries.

This increase in private sector steelmaking, which mainly uses electric arc technology and turns out reinforcing bar, pipes and galvanised products, does have the effect of introducing greater flexibility into South Rorea's steel strategy in that the private companies may well be able, if their plants are profitable, to extend production facilities beyond existing targets. The fact that by 1991 Korean experts are predicting a more than 6m tonnes a year shortfall between domestic production and demand will clearly encourage this trend.

does not have to worry too steel exports, in spite of the by 1986 South Korea would be too own automobiles." the world's tenth largest steel

to earn hard currency to finance its debts and future develop-ment and partly because the range means it is unable to meet

for public In its plan for the second mill, has not deterred the big comdomestic demand (especially for year when POSCO brings on steel exports. In 1978, exports example, was \$300 a tonne),
is a highly the Government has responded panies from moving forward, steel plate, coils for re-rolling stream an 80,000 tonnes a year to the EEC are provisionally in the world steel market have
industry, to this criticism by firmly comindustry, to this criticism by firmly comICC, which is one of Korea's 13 and for special allow steels) silicon steel manufacturing estimated at less than 100,000 in the world steel market have
sconfidence mitting itself to an enlarged targeneral trading commanies last while having disposable surnlant besides reiterating its confidence mitting itself to an enlarged tar- general trading companies, last while having disposable sur- plant. Last year, there was a big year, Korea exported and imshortfall in stainless steel pro-

ported 1.3m tonnes of steel duction, with the Korea Special products. The country's exports Steel Company (part of the thus accounted for less than Sammisa group) turning out 2 per cent of world steel trading. 150,000 tonnes of stainless steel In the past the planners have bars, plates and pipes against shown a tendency to under-domestic demand of 540,000 estimate Korean steel demand, lonnes. A new stainless steel which is now expected to reach plant with 100,000 tonnes per 10m tonnes this year, three years year capacity is to be conahead of schedule, and to constructed, starting this year, by
tinue growing at around 24 per Daehan Jungki, and Korea
cent a year. The more rapid
than expected growth of the
construction industry has been
gramme for another 950,000
reputs represented this year. partly responsible, and this year tonnes per Korea expects to import 160,000 According to tonnes per year capacity. According to the Ministry of tonnes of reinforcing bar to Commerce and Industry, this satisfy a 30 per cent increase in will give Korea a total capacity demand for the product. Total of 1.55m tonnes a year in special domestic demand for reinforcing (mainly stainless) steels by bar is put at 1.8m tonnes this 1985, by which time domestic demand is predicted at 2m

Some steel products, such as tonnes. The Government says that girders, steel rails and sheet piling, are not currently promore rapid expansion duced in Korea at all and so impossible because of shortages are 4.500 subcontracted workers will continue to be imported of skuled labour and difficult who are not taken into account for the foreseeable future. ties in raising the vast capital in the productivity calculation. There is also a severe shortage sums required of many special steels, although South Korea's brushes with

tonnes, against a permitted voluntary quota level of 220,000 tonnes. The Koreans feel that it is not worth upsetting Europe over steel at a time when they are urgently trying to foster trade and technology links with ence upon Japan. Steel imports gain experience of a large mm. from the EEC, meanwhile, have been allowed to grow to 175,000 tonnes in 1978 as part of the

lower wage costs and a high level of productivity, which POSCO now puts at 437 tonnes are impossible because of different systems of counting employees. At POSCO, there employees. Domestic steel prices are con-trolled directly by the Govern-

POSCO, as would be expected; pitches its export prices below the prevailing international rate and has exported to 31 comtries, which represents a policy the continent as part of the of spreading a small quantity switch from economic depend- of exports thinly in order to

Dependence

however, its prices are highly metals, South Korea's present goal is one of self-sufficiency, those of Japan. This reflects reflecting as with steel dependence upon imported raw materials. Substantial imports of aluminium and lead ingots per man year, compared with are expected to continue for Japan's 445. European produc- some years, although production tivity is generally lower, of electrolytic copper and zinc although precise comparisons (the latter is one of Korea's few basic metal products for which there is adequate supply of domestic ore) is now just about equal to domestic demand. In who are not taken into account the case of refined lead, imports will continue in spite of domes-tic ore resources because demand one important gap for the steel protectionism, with the ment and for much of last year inadequate to justify invest-electrical industries will be EEC, the U.S. and Australia, were running above interment in a large-scale refining to justify myestfilled from September of this have also cooled the ardour for national levels (steel plate, for project.

Demand takes off

So the world steel industry MR. CHUNG SE YUNG, president of the Hyundai Motor KOREAN MOTOR INDUSTRY PRODUCTION AND EXPORTS 1967-1978 (UNITS) much in the next ten years Company, received a very loud about being swamped by Korean cheer earlier this year when he cheer earlier this year when he told a mass assembly of his recent dramatic statement by 10,000 production workers: 'It President Park Chung Hee that will not be long before you guys will not be long before you guys

There will, of course, be some exports during this period, partly because of POSCO's need to earn hard currence to face. Two years ago that proposiwhat little domestic demand existed. Korea's motor industry had little prospect of a home corporation's uneven product base. In 1976 the country had one motor vehicle for every 164 people—compared with a 1:4 ratio in Japan.

That was the climate in which Mr. Chung had to persuade his board to invest in the motor industry, and in which the three local motor manufacturers were seeking with difficulty to convince the Government that Korea's proposed car plants could be profitable and successful exporters.

Teday the picture is transformed. As per capital GNP passed the critical \$1000 mark last year (it is projected at \$1,493 this year) domestic demand took off. There is now a six-month waiting list in Korea for delivery of the country's only home-bred car, the Hyundai Pony.

This is despite continued heavy taxation on cars, which has come to seem more neces-sary as the streets of Seoul progressively choked with traffic. Half the Pony's \$5,000 retail price in Korea is tax and from April onwards the annual car tax for a Ford Granada (assembled from kits by Hyundai since the end of last year) will be \$3,760 and \$507 for the Pony.

Bonds

Those who want to register a car in Seoul also have to buy bonds to help finance the construction of future stages of the capital's underground railway and they can shortly expect to face a Singapore-style zoning system which will impose heavy fees for anyone using a car in the peak hour with less than a full load of passengers. To complete the picture, petrol now costs well over £1 a gallon. The effect of Hyundai's export objectives is obvious. From a position of scouring every export market in the world, from Tibet to Belgium, Hyundai is now trying to hold down the level of exports. "I hope we can keep it to 25,000 units this year, but we may be forced closer to 27,000," says Mr. Chung. A few months ago the 1979 target was being put at 30,000, against 20,000 in 1978. The revised export target is to be spread among 40 countries, so the Pony is going to remain a rare animal in all its overseas markets.

One small by-product of this situation is that exports to Britain are unlikely to start within the next two years, even though a right hand drive ver-sion of the Pony will be ready in Belgium and Holland, begun at the end of 1978, is said to have gone well, but there will simply not be enough cars to continue the thrust.

and to 2m units in 1986. The Government wants half the 1981 output and 70 per cent of the 1986 output to be exported. Of

Trucks exports total exports total total exports production 1967 4.983 1,385 6,604 1975 18,509 14,972 37,290 48,292 1976 25,695 558 3.468 36 19,219649 4,055 83,000 42,284 5,073 1977 5.453 35,263 85.893 25,688 7.27967 63,446 156,418 Ministry of Commerce and Industry Sourc

cars, 20 per cent trucks and 10

In the present situation this facturer. Hyundai, whose share of output between now and 1981 is expected to increase from 50 to 60 per cent. The Pony remains the only genuinely Korean car and it accounted for all but 7,000 of last year's motor vehicle exports.

Hyundai is in the process of extending its plant at Ulsan on the south coast of the Korean peninsula to raise capacity to 250,000 units a year by 1981. Of these 200,000 would be Ponies. 20,000 Mark IV Cortinas and Granada kits and 30,000 truck and bus.

But the leap now being planned is for a new plant to be constructed inland (thus rejecting the British and U.S. advice which persuaded Hyundai to go coastal with its Ulsan plant, which has since suffered from subsidence, having been built on reclaimed rice paddy) and to be complete by 1984. It will be financed by an issue of shares of the Korean stock exchange, where Hyundai has kept investors happy with another 22 per cent dividend this year, resulting from post-tax profit of \$21m on gross sales

\$440m in 1978. Pony production will continue to be concentrated at Ulsan, but remains to be seen whether the new designs which Hyundal and its Italian design consul-tant Mr. Giorgetto Giusiario now have on the drawing board will be ready in time to go into production in the new plant. These designs centre around a slightly larger basic engine than the Pony's 1200 cc Colt equipment and seem most likely to result in a car designed to present a challenge in the Ford Cortina range. Later this year the Pony will also be available in a 1600 cc version.

One option which Mr. Chung has resisted, despite Government pressure, is to go into the small car market. It was even rumoured at one point that Government officials, following the administration's very active energy conservation policy, were preparing to liberalise (ie vehicles, but the 1980s should vehicle market...

Ownership

Rorea Development

the 2m units 70 per cent will be reduce import tariffs to non-

Chung dismisses such a possibility as nonsense. would simply flood the market with Japanese cars and that's the last thing the Government wants," he says. His own company's research has indicated, he says, that the Korean market, with its predominance of large families, is not right for a mini-car. The Pony is the smallest Hyundai intends to so and Mr. Chung says his view is supported by experience in the

successful, Of course there is always the possibility that one of the other manufacturers will choose to. rush in where Hyundai fears to tread. Probably the most interesting development in the Korean motor industry in the last year was the entry of the Daewoo group, which took over Motors and thus entered a joint

venture with General Motors, Daewoo, founded as recently as 1967, is one of the fastest-growing of the Korean conglomerates and last year recorded sales of SZbn. It has a reputa-tion as one of the brightest and toughest groups in Korea and is expected both by Government and its competitors to take Saehan into new and more adventurous fields involving the development of its own model as a rival to the Pony. Up to now Saehan has only assembled Opel and Chevrolet models with

Meanwhile Kia, which set out as a bicycle manufacturer and still has a strong line in Hondalicensed motor-cycles, concentrates its passenger production factured under licence from Toyo Kogyo of Japan, where the car seils as the Mazda Familia. Motors bus-manufacturing company, is also an important

KOREA'S MAJOR MOTOR MANUFACTURERS

Total \$416m

Production capacity

278,400 units

penal levels) the import of cars independent car manufacturer cent buses and special under 900 cc in order to apply If the Korean motor industry is pressure to the domestic manu- to meet its Government target of exporting 1.4m units in 1986 (more than 50 times the 1978 level) there will clearly have to "It be rapid expansion beyond that already publicly indicated by Hyundai.

motor

exports

31

1.243

9.136

26,271

It will be interesting to see to where Korea will look for its motor industry technology in the future. Hyundai, in preparation for its new plant, has been talking to a number of major European manufacturers; including Renault and Volks wagen, but Mr. Chung says these discussions have not been concluded. "It has still not-Japanese market, where small-model designs have not been been decided whether we need: to have a partner at all;" he

It is certain though that the new plant will rely heavily on foreign machinery imports and that it will be much more highly automated than Ulsan, where local management has struggled to get the man-bours rate for the Korea Development Bank's Pony production down from 60 50 per cent stake in Sachan to 30 per unit, which is still 12 man-hours short of the Japanese rate for a comparable model:

It is also certain that the investment will be heavy at a time when Hyundai must be relying heavily on the profits made from its assembly of knocked down kits of Ford models to offset losses on exported Ponies. Under anagreement with Government, Hyundal can import one Granada kit for every five Ponies

exported.
The Granada sells for an. astonishing \$26.000 in Korea, although more than half of this. Japanese and German engines is tax. The Pony is now 95 per for the company's large range cent Korean-made, although this of buses and trucks. many components are assembled from overseas kits or manufactured with licensed technology. Meanwhile domestic demand,

fuelled by the rapidly increason the successful Brisa, manu- ing wages of, among others, the Hyundai workers, will continue: to boom, perhaps taking domes: tic demand to 2m units a year Kia, having taken over the Asia by 1991. This would indeed bevolume base from which the Koreans could make serious manufacturer of commercial inroads into the world moint

(End 1978)

investment (units per year) Machinery/Other Industrial Machinery/Heavy Construction Hyundai International is well versed in the high-level Machinery / Agricultural Machinery / Material Handling Equipment/Air-Conditioning Equipment/Machine Tools Steel Structures/Automotive Paris/Castings and Forgings Dredg-Publicly quoted \$217m technology it takes to turn out everything from com-140,000 Ford Cortina Mk IV company; member of plete power plants to multi-purpose heavy machinery, Ford Granada ers, Tug Boats, Barges and Other Special Purpose Boats, Shipping Business, Timber Development. later this year. The initial European test market operation Kia Hyundal group Pony, Trucks, Buses Independent company, \$116m 70,400 has strong technical links with Honda Brisa. Trucks Began as bievele manufacturer 68.000 Rekord Owned 50-50 by General The Korean motor industry's Gemint Motors and Daewoo priorities then are to scale up group. Daewoo stake production to 1m units in 1981 acquired last year from

現代洋行

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MAIN PRODUCTS & ACTIVITIES

THE DESIGNATION OF THE PROPERTY OF THE PARTY OF THE PARTY

Electronics

A challenge to Japan

industry is the sense of treading in Japanese foosteps more strongly felt than in the elec-

Korea's electronics companies began life in the late 1950s by providing cheap assembly bases for Japanese (and U.S.) kits. Since then they have moved into the middle ranges of sophisti-cation in consumer electronics, offering a big challenge to theirmenfors in the manufacture of televisions, radios and low-price audio equipment.

ndence

37-1978 UM

Arthur Land

The industry's export targets have also been constructed in line with the rule of thumb theory that Korean electronics is ten years behind Japan. In 1976 the Japanese exported \$9bn of electronic goods. In 1986, the Koreans are pro-grammed to achieve the same

Many in the industry, however, believe that it is too much to expect the electronics companies to be contributing 20 per cent of total Korean exports by 1986, in spite of their record of averaging 37 per cent a year growth between 1962 and 1977.
Mr. Sung Chan Park, president of Gold Star, the Lucky Group company which leads the Korean electronics industry, believes the comparison with Japan does not apply this time because the Korean population is three times as small, creating difficulties in advancing to crucial economies of scale, especially in audio products and components.

"I should say that the most optimistic projection would be for the industry's exports to grow to 10 per cent of the country's total or \$55n by 1986, but you never know whether the Government might help us to do better. We shall certainly be aiming for their target." he.

thing the electronics

the Government is the opening has delayed its tube manufac- in Europe too. I'm looking for the Korean industry will be busy off what they believe will be turing plans, but will still be offers, says Dr. Y. S. Chang, a filling the gap in low-price audio floodgates in the domestic colour television market. Some in the industry are hopeful that the Government will relax its position and permit colour TV broadcasting later this year, although current political worries about stimulating consumer demand at a time of high inflation suggest this could be wish-

ful thinking.

The Korsan colour television industry, still only in its third year, has run into deep problems because of the recent decision by the U.S. to impose a quota of 289,000 Korean seats in the 17 months from February. This was a reaction to a pattern of export growth characteristic of Korean elec-tronics: 1976: zero; 1977: 20,000 sets; 1978: 500,000 sets. The three Korean manufacturers to the UK. (Gold Star Samsung Electronics But the and Taihan Electric Wire) have an immediate capacity of 1.2m sets a year and could easily quadruple this level by transferring black and white set production lines to colour, Around 3m monochrome sets were produced in Korea last year. The Korean TV industry is already much bigger than Britain's and if they can find the markets, Gold Star and Samsung will not be far from the capacity of Matsushita the world market leader with 3.7m sets a year.

The quote blow to colour sales, which has reduced production this year to well under half capacity, has also come just when the industry is breaking through to a high level of localised production by manufacturing its own colour tubes. This summer, Gold Star, for example, will start up a 600,000 colour, tube whits per year colour tube units per year facility at the wast Gumi electronics complex in the central part of the country. Samsung,

appointed President of the closely involved in the original Government planning of the electronics offensive, is bitter about what he believes to be the major role played by Japanese offshore manufac-turers in the U.S. in blocking Korean products. The Japanese, U.S. quota is 1.75m sets a year — only because they got there first," says Dr. Kim. The U.S. is by far the Koreans' most. important electronics market, taking 31 per cent of all output last year, compared with 40 per cent in home sales, " per cent to Japan and 1.5 per cent

But the Korean manufacturers, true to form, are already well advanced in their plans to beat the Japanese at their own game. Mr. Park says he has virtually sewn up an agreement to assemble Korean colour TV sets inside the U.S. and outside the quota restrictions. He says he is open to offers from Europe for similar ventures, although Gold Star is caught in the licensing problem of the Telefunken PAL colour system. The U.S. facility could start operating later this year at a test-run rate of 100,000 sets a year to investigate the economics of the operation. He has had to agree, with much reluctance, to use U.S. picture

Likewise Samsung has had detailed talks with European interests, most productively with Germany and France, "We would be interested in co-operating on the basis of Korean manufacture and European design, marketing, know- years, how, sales and management, but Mr.

producing colour tubes in bulk key member of the Samsung left behind by the Japanese. later this year.

Dr. Wan Hee Kim, recently currently closely involved with control (mainly by increasing appointed President of the electronics strategy. At \$167 automation), developing in-Electronic Industries Associa ex-works, the export price of a house manufacture of key comtainly has price on its side.

> cal to Korea's consumer elec- stepping up spending on retronics industry, because it is search and development, the only substantial area where As for components, h the major companies have moved to both international scales of production and a high level of domestically produced components.

This is a useful reminder of the youth and relative primitiveness of Korean electronics. That \$1.4bn of exports last year, for example, comprised 43 per cent of assembly-only goods whose components were shipped in and finished products shipped out by the 35 foreign-owned com-panies and 85 foreign-Korean joint venture companies which still play a major role in the industry. These companies are greatly outnumbered by the 580 pure Korean registered electronics companies, but many of these are small components manufacturers of subcontractor,

South Korea's balance of trade in electronics is, in fact, only just positive. In 1977, the country imported \$847m of electronic goods, against total exports of \$1.18bn. Manufacturers using a certain level of imported parts are required to re-export at least 80 per cent of their output.

Men like Dr. Kim and Government officials are confident that the reliance on foreign parts will rapidly decrease in the next five years as the big Korean companies scale up production of audio products in the same way as has happened with television output in the past three

Mr. Chang of Samsung bereacting to U.S. developments, if necessary we will assemble lieves that in the next five years,

tion of Korea and one of the 16-inch Korean colour set cer- ponents-some of which have been in maddeningly short Television production is criti- supply in Korea this year-and

As for components, high on the Government's list of electronics priorities is the stimulation of the domestic manufacture of semi-conductors and integrated circuits, leading eventually to a capability in mini-computers. The Government has put up \$60m, alongside \$30m from the World Bank partly to establish the Korea Institute of Electronics Technology at the Kumi industrial complex, where ten plants are either complete or under construction, five for the manufac ture of semi-conductors and five for other computer components Semi-conductors are already

blg industry for Korea because of the presence of Motorola, Signetics and Fair-child in one of the country's export-free zones, where the U.S. and European companies can assemble their products and re-export without customs pay-The output of these companies accounted for vir-tually all the semi-conductor exports of last year (about 18 per cent of total electronics exports), and by 1986 semi-conductors exports should be worth 2.28bn if all goes to plan.

By that time, however, it is intended that a large slice of these exports will be indigenous products of the Kumi com-panies, all of whom have joint venture or licensing agreements with established (mainly U.S.) manufacturers. At present only Samsung has a full operating semi-conductor company, Samsung Semiconductor, estabproduces circuits for Samsung's electronic watch business and

bipolar transistors. By 1986. Dr. Kim believes that Korea will be exporting its first computer system. Other senior figures in the industry are less confident, but all believe the Korean companies will find a

LEADING ELECTRONICS COMPANIES Market Exports 1978 Employees share Main products Consumer products: affiliates in communica-Gold Star (Lucky Group) tions, semiconductors 10.000 Consumer products affiliates in 'semiconductors, tubes components, communications Motorola Integrated circuits, Korea (U.S.-owned) 102 5.000 transistors Tai Han Electric Consumer products, 8,350 cable, communications Integrated circuits Signetics Korea (Philips) Integrated circuits, Anam Industrial transistors, watches 4.500 Source: MCI (estimates)

COMPOSITION OF 1979 EXPORT TARGET	KOREAN ELECTRONI	CS OUT	PUT A	ND E	(PORTS
(by value) Semiconductors and inte-		1978	. 1979	1981	\$ current - prices
grated circuits 2	Consumer electronics Total output	bn 0.94	bu 1	bn 1.52	bn 4.44
Radios 13	of which exports	0.64	0.7	1.09	3.3.6
Tape-recorders	. Total output	0.21	0.34	1.7 0.45	1.44 2.24
Amplifiers	Flectroure combonent?	0.1			
,	Total output of which exports	0.6	1.31 0.9	1.98 1.32	5.48 3.57
Other 18	Total electronics exports Source: Electronics Inc	1.34 dustry Ass	1.8 ociation	2.86 of Kore	

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Construction

Overseas contracts soar

contracts worth around \$4bn in 1978 against \$3.50n the previous year. In fact, the figure has turned out to be well in excess of \$30n and to support this massive invisible earnings operation, the Korean builders shiped out another 50,000 or se workers, taking the total to almost 100-000

market the Middle East (accounting for around 70 per cent of business), is generally considered to be in decline from the formidable building boom of the mid-1970s, this represented a remarkable performance. 10 did however cause prob sectors this year.

12 did however cause prob sectors this year.

12 lems, Ar a time when domestic. The domestic sector, which indicates was being pushed up accounts for roughly half of panies freedom to convert foreign earnings into local

currency.

Although these limits have now been officially relaxed partly in recognition of the liquidity difficulties they caused within some of Rorea's biggest industrial enterprises the spirit of the policy persists. The Koreans are being encouraged not to bring their remittances home, but to invest them in projects of the countries where the construction companies are he construction companies are active. This policy reflects in turn the Government's desire to see large sections of the counuys exports, whether visible or invisible, fied to agreements with raw materials rich countries. Thus Hyundai Construction, still very much the biggest of the Korean building firms, is negotiating a stake in Saudi Arabia's steel-and aluminium industries by offering to contriplant when it is complete.

makes sense from other points ing, in addition to their conof view too. The Koreans are ventional civil engineering well aware that the best times skills, the assembly component have indeed passed for the for Korea's ambitious pro-Middle-East construction in gramme of plant exports. At dustry and that in future pure present, this is an area of only civil engineering operations limited export success for related to infrastructure Korean industry, and the value related to infrastructure Aurean mustry, assecured last development will proceed at a of export contracts secured last more modest pace. This decline has obviously not been helped by instability in Iran, where 5 per cent of their business.

equally affect the more sophisti- country's investment in new cated end of the construction heavy plant forecast by the industry: the building of plant Korea Development Institute to for the metals, energy, and quadruple (to about £18bn) in themical industries. Here, the the period 1987-91, compared Roreans know that they are at with 1977-81. a disadvantage compared with And the U.S. who are called in chiefly oil refining, steel, petro- The conglomerates are also become the beginning of such projects chemical, cement, fertiliser, in a position to use their rela-markets.

Korea, says there must now be a-big campaign by the Koreans to identify themselves as "development partners" rather than competitors with both the suppliers of high technology and the countries where the projects

are taking shape.

Even so, Mr. Choi's personal view is that last year's level of nimest 100,000. View is that last year's level of Given that the Koreans' scale contracts cannot possibly be repeated in 1979, leading to the first decline in the pace of the industry's order-taking since it emerged as an international force five years ago. He predicts a 30 per cent downturn in both the overseas and domestic

accounts for roughly half of wards by a variety of cost and the Korean industry's total wage push factors, the noney as a result of a tighter Govern-supply from foreign exchange ment public spending policy earnings caused the Government this year and also because of a to impose tight limits on com-continued general decline in the private housing sector. This will only partially be compen-sated for by the still white-hot pace of investment in facilities for Korea's planned switch of emphasis away from light industries towards the heavy and chemical industries.

All these factors can be expected to work in favour of the bigger construction companies, 10 of which account for around half of the industry's turnover. The other 519 com-panies are mainly very small outlits, and the Government is putting further pressure on the rationalisation of the industry into larger units by its recent ban on licences for new construction enterprises.

Ambitions

There is no doubt, also, that bute both capital and then panies are destined to play a operating personnel for the much more central role in the growth of the Korean industrial This type of development economy in general by providyear actually fell \$161m from

\$305m the year before.
The pace of domestic require-Rorean contractors have about ment is, however, picking up 5 per cent of their business. rapidly as a result of the indus-But this slowdown does not trialisation process, with the

Korea's strategy in the field to sharpen up its technological their competitors from Europe of plant (by which is meant and planning capabilities.

Construction Association of Meanwhile, abroad the Korean construction and heavy industry companies will increasingly be offering their services on either a straight sub-contract basis or in full-scale joint ventures with western or Japanese firms.

This means that the relationship between the big construccompanies and their domestic engineering and heavy industry affiliates is of increasing importance as the Koreans move towards a position in the 1980s when they nope them-selves to be bidding for foreign contracts on an independent turnkey basis.

For a company like Hyundai. Construction, the links with the Hyundai group's heavy industry, engineering and steel fabrica-tion activities are already strong and well used. Many steel structures for the Middle East have been knocked up at Hyundal Heavy. Industries' shops close to the same group's. Ulsan shipyard.

According to Mr. W. J. Chang. the former military man, who is now President of Hyundai Conthis which struction, this inter-family relationship, which even includes a shipping company combined with his own employees high productivity, is already allowing Hyundai to undercut other Korean contractors by a steady 15 per cent. He predicting an increase in Hyundai Construction's rate of orders this year from \$2bn in 1978 to \$2.4bn and says the company has aiready snapped up eight major contracts this year, with another 20 under negotiation.

leadership will not be retained automatically. Hyundai International split from the Hyundai group five years ago after a disagreement between Mr. I. Y. Chung, its chairman, and his elder brother, Mr. Y. Y. Chung, who started the Hyundai group and is still its chairman. Hyundai International does

not figure yet in the construc-

an integrated manufacturer and assembler of heavy industrial projects it is being styled to on the capitalise general industry construction-heavy strategy already described. Likeas Daewoo and Samsung, have industry activities, and a company like Samwhan, which started life in 1946 as a pure construction outfit, is today stressing the resources of its engineering affiliate. One construction firm, Kyungnam, has bought a small U.S. consultant engineering business in order

LAST: THAT South Recent for technical advice and whose pulp and paper and electrical tionships with foreign advanced country with an embarrassacrate fields as turbine manufacture offers of foreign turnkey by their heavy industry divisions overseas continued to portion of contracts.

Mr. C. W. Choi, chairman of foreign turnkey bidders for its domestic contracts, foreign high-technology companies formed to bidders for its domestic contracts, foreign high-technology companies as a bridgehead for similar tracts, foreign high-technology companies for sions as a bridgehead for similar tracts, foreign high-technology companies for sions as a bridgehead for similar tracts, foreign high-technology companies by their heavy industry divisions overseas continued to portion of contracts.

Mr. C. W. Choi, chairman of foreign turnkey by their heavy industry divisions as a bridgehead for similar tracts, foreign high-technology companies formed technology companies formed to bidders for its domestic contracts.

Mr. C. W. Choi, chairman of foreign turnkey by their heavy industry divisions as a bridgehead for similar tracts, foreign high-technology companies formed to bidders for its domestic contracts.

Mr. C. W. Choi, chairman of foreign turnkey by their heavy industry divisions as a bridgehead for similar tracts, foreign high-technology companies formed to be the contracts.

Mr. C. W. Choi, chairman of foreign turnkey by their heavy industry divisions as a bridgehead for similar tracts, foreign turnkey by their heavy industry divisions as a bridgehead for similar tracts, foreign turnkey by their heavy industry divisions as a bridgehead for similar tracts, foreign turnkey by their heavy industry divisions as a bridgehead for similar tracts.

Mr. C. W. Choi, chairman of foreign turnkey by their heavy industry divisions as a bridgehead for similar tracts, foreign turnkey by their heavy industry divisions as a bridgehead for similar tracts, foreign turnkey by their heavy industry divisions as a bridgehead for similar tracts, forei national lists more than 40, and such technology agreements are rapidly proliferating in fields as diverse as nuclear reactors, diesel engines and dredging equipment

Whether the rest of the world construction industry should worry and refuse to co-operate with the Korean strategy, or whether it should see the availability of still relatively low-cost Korean partners with intensive if brief experience of some very big projects, is clearly going to be at matter of judgment in the advanced countries.

According to Mr. Chang. Korean labour costs (\$1100 per month for an overseas worker. against a national domestic industrial average of not much more than \$400) are still a good one-third below European costs, but another year of 15.6 per cent real wage inflation last year bas already made the Korean worker uncompetitive with his rivals from the Philippines, Morocco

Pressure

As Korean costs continue to rise sharply, clearly the com-petitive edge is harder to find, and the Koreans accept that after four very good years in the Middle East, they will increasingly have to sell on quality. So far, however, there is still no problem in luring Koreans to the inhospitable climate of the Arab world. Hyundai has a 95 per cent reapplication rate from workers who have completed their 13month contracts. One factor which is changing

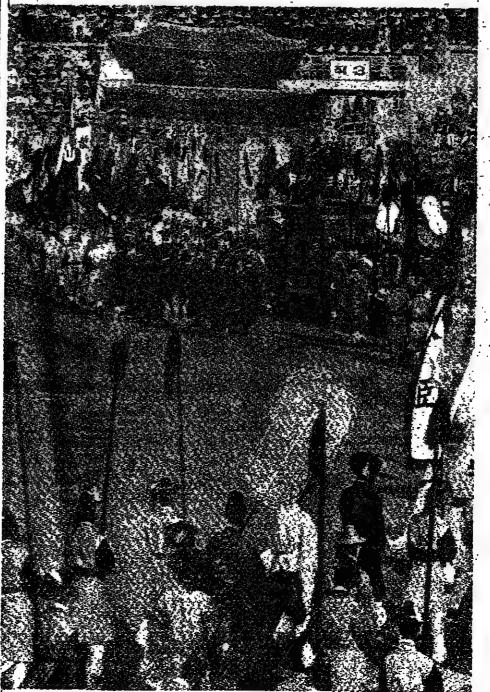
as a result of customer pressure, is the Koreans' willingness to purchase domestically available supplies and services. Their image of total self-sufficiency in the past has done harm to their standing with local traders. This self-sufficiency, however, really a misnomer as the big companies already buy half their materials from third tion industry's top ten, but as countries. Hyundai last year spent \$500m on such supplies -half of it in the U.K.

There is no doubt, also, that the Koreans will be looking increasingly to non-Middle East markets. At present, 10 per cent wise other major groups, such of the industry's overseas business is in the Far East, 45 per linked construction with heavy cent in Africa adn 7-8 per cent in South America. To some extent, the Koreans are limited in attacking these developing country markets because they cannot afford the luxury of aidlinked trading or even the soft loans of their advanced competitors. The companies do not doubt, however, that their horizons, as they become more technology-intensive, will also become wider in terms of

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Shipping and shipbuilding

Sprint strategy a miscalculation

THE MAJOR SHIPYARDS

Nominal

Prospects

SOUTH KOREA'S shipbuilding industry represents, arguably, the gravest miscalculation so far by the country's industrial planners. The strategy to sprint within 15 years to second place in the world industry behind Japan-although still not necessarily unattainable—has resulted in a string of serious financial

Two of the companies licensed to build important new plant. Koryo and Korea Shipbuilding and Engineering, found the strain of financing construction at a time of profound recession in their existing businesses too much and their part-complete facilities have now been passed over to the more secure financial strongholds of two of Korea's biggest conglomerates, the Samsung and Daewoo groups respectively.

Meanwhile, Hyundai Heavy Industries, which set the Korean industry on the road to international status, has had to cut its shipbuilding workforce from 30,000 to 20,000 in the last two years as it has struggled, in spite of highly competitive pricing to fill its huge docks which are capable in theory of swallowing 1.6m dwt of orders per

In 1978 Hyundai had to be satisfied with output of 29 vessels aggregating 693,000 dwt and its order book in mid-March comprised 33 vessels totalling

731,900 dwt.

During this difficult period. During this difficult period. Hyundal has been able to draw year's gross turnover of \$50m by \$30 per cent in 1979. strength from the rest of the group and the 10,000 men no onger employed in shipbuilding have been comfortably absorbed into other heavy industrial activities, such as steel fabrication for land construction work, in the vicinity of the Ulsan yard. old-timer in the industry and In Korea, there is no shortage certainly well established in a of demand for experienced steelworkers and outfitters.

Mr. C. H. Cho, the Hyundai Corporation director responsible for ship sales, also says the yard has struggled resolutely to main- practically complete, requiring tain profit margins in its ten-only construction of ders for new husiness where workers' accommodation ders for new husiness where workers' accommodation — Hyundai has frequently under- standard at large industrial sites cut its competitiors by as much in South Korea. as one-third and still undercuts Japan by 16 per cent. But he stage project involving con-admits that in practice the mar- struction of two docks, one of gin frequently has vanished under the tide of rising costs capacity and a second able to once the contract has been

No financial figures are pub-souring lished for Hyundai Heavy Industries, which is a part of the Hyundai group not yet quoted on the Seoul stock exchange. Meanwhile, Hyundai continues

to try to improve its range of technical skills and versatility as a shipbuilder. About 20 engineers were sent for training overseas last year as part of the yard's build-up to offering its services as a builder of liquid natural gas carriers in association with Gaz-Transport and Technigaz. So far, however, the yard has not won an order for this most sophisticated type of

merchant ship.
On a more mundane level, the shipyard, like its neighbouring Hyundai Mipo ship repair yard, is also working hard at improving quality, especially on the autititing side. Workforces at both yards have been criticised by Western equipment suppliers over the quality of on-site installations.

Mr. Moon-Doh Chung, president of Mipo, believes his yard has now established firm quality control on basic repair jobs. "You have to remember, we are still new, so that for certain complicated works we may require a little more improvement," he In spite of that, Mipo operated at 80 per cent capacity last year-a very reasonable performance in the circumstances of the market — and is confident of lifting last

Established

Hyundai's shipbuilding yard, six years old last month, is by Korean standards a venerated way not true of the country's other large-scale shipbuilding facilities at Koje and Okpo islands.

The Koje yard is now

Koje yard began as a two-100,000 dwt (or Panamax-size) work of the Koryo company, but souring construction costs created cash-flow problems and in 1977 the Samsung group, Korea's oldest and perhaps strongest large industrial and trading group, took over the Hyundai Heavy Unquoted project as a substitute for its Industries own plan to build a mainland

shipyard. Early last year, Samsung signed an agreement with Burmeister and Wain of Den-mark and IHI of Japan for technical assistance in running the yard and in training workers. About 1,000 men are now on site and at work on the company's first contracts.

These orders ars from Indonesia, with which Korea has close ties, for two 15,000 dwt oil products carriers and the yard has also won an order recently for a 20,000 dwt products carrier from Pan orean shipping. Mr. Eun Taik Lee, President

of Samsung Shipbuilding, admits frankly that the \$20m contract figure for the Indonesian deal is a loss-making figure. "We will have big losses with these ships, but we have to do it because as new comers to the industry we must gain experience." He adds that other deals now under nego-tiation with Australia and Northern Europe have pitched closer to profitability.

Mr. Woo Dong Cho, chairman of the shipbuilding company and of the parent Samsung Heavy Industries, says the company has no regrets about entoring shipbuilding, which he confident is a strategic industry for the economic advance of both Korea and Samsung. However, the company has gone back to the drawing board on the second stage of the yard, originally due for completion in 1980.

It could still emerge as a 500,000 dwt VLCC dock (with the perhaps more useful possi- cent) and the Korea Developbility of building two Panamax ment Bank (49 per cent), but it carriers side by side), but it is would be normal for the bank's

Okpo island yard, designed by

capacity Ownership Orderbook of L6m dwt 731,900 dwt company, part per year of Hyundal group. Sales handled by Hyundai Corporation Orderbook of 700,000 dwt Korea Shipestablished six months' building and per year independent company work Engineering Daewoo Shipballding Largest ship-Uncertain, but Daewoo conglomerate took building dock likely to over Okpo in world with involve heavy Machinery island yard construction 1.25m dwt non-marine capacity last year. Due

yard project from Koryo. complete with a giant 1.25m dwt con-

for comple-

rion 1980.

Samsung

conglomerate

Koje Island

Samsung

Shiphailding

struction dock.

The burden proved too great for the limited means of KSEC. already suffering from the industry's slump, and the Government spent some time looking for an alternative operator. Both Samsung and Hyundai looked at Okpo and decided it was not viable only to find that their arch-rival, the younger and some say more ambitious Daewoo group, was prepared to take it on.

Formally, the ownership is

shared between Daewoo (51 per

would be normal for the bank's the Daewoo group had exports share to be sold to private of \$850m and it intends to equally likely to turn out to share to be sold to private of \$850m and it intends to be the size of the existing dock. investors once the project is boost this figure to \$1.2bn this "We have no firm" commitments." Mr. Lee says.

expects its own investment to Okpo will not contribute to Potentially the most exciting amount to \$400m and the bank venture in Korea shipbuilding has put up \$140m as pald-in because the least defined, is the capital for what is in effect an interest-free loan to cover

associated with foreign equip-

Single 100,000 Orders for

dwt dock, plus

plan for second dock of un-

determined

four products

ment purchases. Characteristically, Mr. Kim Woo Choong, 41, chairman and founder of the Daewoo group, has chosen a finance man to head the new venture. Mr. In-Kie Hong, president of the recently titled Daewon Shipbuilding and Heavy Machinery, spent 16 years with the Korean finance Ministry, and via the bridgehead of an economics refresher course at Harvard, joined Daewoo in 1977 to run its Orient Securities affiliate.

He took up his present job five months ago and is the same age as Mr. Kim. Last year,

exports in 1979. The takeover process has delayed construction work and the basic shipyard facilities, designed by Korea Shipbuilding and Daewoo's basic construction A and P Appledore of the UK. Engineering to take that long-costs until 1981. Most of the now will not be complete until established company into the rest of the cash is coming in the end of 1980. Daewoo hold ships up to 500,000 dwt, established company into the rest of the cash is coming in the end of 1980. Daewoo The project then was the big league of world shipbuilders the form of guaranteed loans Development, the group's con-

struction company, has also taken over site operations at Okpo.

By 1982, Mr. Hong says that Okpo, now a fishing village, will have a population of 100.000 and his company a workforce of 20,000 Koreans. He has already started to recruit and Daewoo will shortly open its training school at Okpo to create 1,200 skilled men a year. "The men at Okpo will be the elite and they will have the most comfortable and hospitable environment possible," he says.

But the real question is: what will Okpo build, given that the 1.23m dwt tanker, which looked a-certainty when the yard was conceived pre-1973, is still no more than a figment of the wilder shipowners' imagina-

For a start. Mr. Hong says, the workforce will engage in the structural steelwork and crane construction necessary to equip Okpo itself. It will then be-come the company's answer to

This is hardly a modest statement as Changwon is the heart of South Korea's heavy industrial future—a site for 191 heavy machinery works still being carved out on a 12.5m square metres site 50 km inland from the major port of Busan. Mr. Hong says Daewoo will

build on its existing technical agreements with such companies as Brown Boveri of Switzerland, ITT and Babcock to produce a wide range of heavy industrial plant and equipment, using the huge concrete dock as a steel fabrication yard. As demand emerges it will also build ships, but it is important to note that so far the company has not signed any technical agreement with a ship-

The uncertainty over Okpo's eventual status in the pure ship-building industry and of Samsung Shiphuilding's second phase injects a large measure of uncertainy into South Korea's future shiphullding capacity, still officially intended to increase to 4.25m grt per-year by

1981, compared with 2.7m grt pre-Okpo and Samsung. That 4.25m figure is what has given the OECD shipbuilding working party such anxiety in the past two years because it represents about one third of the total volume of orders foreKOREAN SHIPBUILDING: OUTPUT AND **PROJECTIONS** (gross registered tons in 000s)

1978 1976 555 1,548 158* 618* Construction for domestic owners Ship exports 776* 3.4 684 1.9 Total ship output (% share of world market)

Sources: Ministry of Commerce and Industry (1976-78 figures) Korea Development Institute (forecasts). Provisional

cast for 1980-81. In practice, for the reasons suggested above, real capacity in terms of available workforce is unlikely to reach 3m grt in that year, although the Koreans are obviously ready to spring when the market turns. Companies such as Daewoo and Samsung have no desire to become major shipbuilders if it means losing a

lot of money. Meanwhile, the Government is doing what it can to help. It has improved terms for export credit from 75 per cent to 85 per cent. Repayment periods are usually between five and 10 years and interest rates in line with the international level for the industry at 7 to 8 per cent. There are also plans to subsidise the price of steel plate, the in-dustry's main raw material.

Under the terms of the fourth shipbuilding promotion plan for 1979-80, recently announced, \$254m is to be made available to finance this policy and the Government expects this to result in orders for 213,497 grt of vessels, of which 186,000 grt will be ocean-going types. Under the plan. Hyundai expects to get 11 vessels totalling 133,590, KSEC two at 34,584 and Samsung three small vessels totalling 6.050 grt. The rest will go to the country's six medium-sized yards (headed by Daedong and Doughae) and its 111 small

yards. Another target is to increase the localisation ratio of ship construction materials from its present level of not much more than 50 per cent to 80 per cent by 1981. The recent opening of will be a big contributing factor in this process.

There is one other important factor working in favour of South Korea's shipyards - the growth of the country's own

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As the table shows, this has expanded steadily and is expected to reach 6m grt by 1981 -roughly the size of the flee now registered in Sweden South Korea has a strong force of merchant seamen — 34,000 men—of whom only half now

serve on Korean vessels. Although South Korean ship. ping companies, like those in many other countries, got into widespread financial difficulties last year, necessitating an \$80m Government injection to finance debt re-scheduling, the Government is confident that by rationalising the 71 ocean going shipping lines and by carefully financing expansion of the companies' container-shipping fleet the industry will have a secure base for the future.

South Korean vessels aiready carry more than 45 per cent of the country's total seaborne trade, but the share for liner cargoes is only about 10 per cent, which resulted in a headon clash between South Korea and the Far East Freight Conference last year when the conference refused to allow Choyung to Join Korea Shipping Corporation in its membership

Eventually, the Koreans won and Government plans call for the ordering of another three container ships this year to take the national fleet to the size necessary for a 40 per cent liner trades share by 1981.

At the end of 1978, Korea had 42 container-carrying vessels (ful) or part-container) totalling 169,000 grt. The fleet is also Hyundai's marine engine plant comparatively old, with 20 46 cent of the 497 vessels over 45 years old, which should also produce more business for the Korean shipyards, where owners are financially induced to build at least one third of their re-

HANYANG TEAMWORK BUILDS IT BETTER Harryang teamwork guarantees you the very best in everything that a general contractor can provide — in housing and construction, in engineering, in civil works projects, in electrical and mechanical projects, in environmental protection, in shipping and in a wide range of other programs. The six member companies of the Hanyang Group coordinate efforts in a way you've probably never seen done before. Large scale housing projects throughout Korea and the Middle East testify to what Hanyang teamwork can provide for you in amazingly expert, economical, speedy and efficient production and construction. So look into Hanyang and see how far a lot of teamwork effort can go for you.

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Why civil servants strike

THE STRIKE of 530,000 whitecollar civil servants called for
today underlines a major handicap facing the British Governmilitancy is cmbarrassing compared with £208 under \$122.

Compared with £208 under \$122.

Civil Service increase; £605.

Compared with £208 under \$122.

Compared with £208 under \$122. ment in the run-up to the General Election: the State's direct employees are throwing the very machinery of Govern-ment into considerable disarray.

Some key Government computer centres have been closed down for five weeks; the Government has been forced to take the drastic steps of introducing emergency legislation in an attempt to re-open the Scottish courts and of suspending civil servants who have refused to do work normally done by those a reluctance to strike.

In meetings at the end of last week Ministers thought they had all but reached a pay settlement with the majority of the civil servants unions by managing to isolate the two largest unions which have spearheaded the selective strikes which have thrown the machinery of Government into such disarray.

But the meetings came too late for today's strike to be called off, though by publicising the offer of 9 per cent now, with half the rest of the rises due from a comparability study to be paid next August and the remainder from March 31 next year. Ministers obviously hoped to spike the action.

Long term

A speedy settlement is in doubt because of some aspects of the offer and the way it has been made. The long term cost of forcing a split in the unions may also be severe in terms of the future of industrial relations in the Service.

There are no legal restrictions on the right of civil servants to strike, though career pressures and their traditional conservatism, particularly among older staff, have created a reluctance to strike.

Such widespread action by

enough for the Government.

Further embarrassment arises from the fact that the civil servants are pressing for pay comparability, the principle that has been used to pacify groups such as the local authority and health service manual workers, the nurses and the ambulancemen. Most embarrassing of all for a Government committed to as yet unspecified comparability rises for those groups is that the increases due on the basis of the findings of the Civil

Service's Pay Research Unit (PRU) comparability studies

Private sector

Both unions and Ministers admit that some grades of civil servant can expect little or nothing extra as a result of comparaability studies, meaning a comparison of their pay with that of people doing similar jobs

in private industry.
But the unions do estimate that rises of 20-25 per cent will become due for 3.300 cleaners, for example; 23-26 per cent for the 76,600 clerical assistants: 25-33 per cent for the 89,600 clerical officers; and 26-36 per cent for 47,200 middle-ranking executive officers.

Senior administration staff, about 6,200 up to the rank of Assistant Secretary, would according to the unions be entitled to rises of 40-50 per cent. The unions claim that the figures clearly show how the private sector has got around pay limits imposed by the Government's incomes policy in the past. The Society of Civil and Public Servants, which represents executive officers and has been most eager for action.

estimates that under Stage One of the Callaghan Government's

Two; and 16 per cent compared with 9.5 per cent under Stage

The PRU system was intro-duced in 1956 to take Civil Service pay out of the political arena. Detailed job-for-job comparisons are made between Civil Service pay rates and rates in a "representative" sample of public and private sector com-

Very broadly, the clerical officer and assistant grades com-pare with office cierical staff, the executive officer grades with lower to middle management. Senior Principal and Assistant Secretary with higher middle and more senior management.
The three top administrative
grades of Under Secretary.
Deputy Secretary and finally



Permanent Secretary are not covered by the system at all, but are examined by the Top Salaries Review Board.

Reports on the PRU findings are passed to the Civil Service Department and the unions, and an elaborate system of evaluation takes place. Negotiation then determines how precisely to take account of elements pay policies staff in similar jobs to take account of elements in the private sector received such as company bonus payThe system has been criticised

for not putting enough value on the considerable advantage of index-linked pensions and job security enjoyed by civil servants. Their pay is adjusted in three ways to take account of pensions. Male civil servants pay a 1½ per cent levy for family up with the private sector. pay 2 1; per cent levy for ramly benefits. PRU settlements are reduced by an amount equiva-lent to that paid by those in comparable jobs elsewhere as examined by the PRU; and a further deduction, based on an assessment by the Government Actuary, is made to take account Actuary, is made to take account of differences, including indexlinking, between civil service

and other pension schemes. In the last PRU settlement, before it was suspended in 1975 at a time of pay controls, the effect of these calculations was to reduce pay rates by about 7 per cent, of which 13 per cent was the Government Actuary's ment of the value of pen-

sion privileges.
Critics argued then that as the rate of inflation had risen to 27 per cent that valuation was far too low. The unions, which are now negotiating on the basis of the new as yet undisclosed valuation of the Government Actuary, are wary of talking about such

Job security is more generally regarded as unquantifiable, though for many workers and staff for whom redundancy is at least a possibility—and for white-collar staff particularly so with the advance of the industrial use of microprocessors-it is nevertheless important. Recruitment to the Service.

particularly in the clerical and executive grades, has been seen as an economic barometer because of the job security offered though the staff cuts in recent years and the pattern of Civil Service pay may have reduced the value of security. In 1973, under a Conservative pay policy, 12.6 per cent of one of the most volatile grades, the cierical officers, left the Service. After a special settlement to

correct pay policy anomalies, the proportion fell sharply to 7.4 per cent in 1976. The Callaghan

up with the private sector. which invariably finds ways of evading norms more rigidly applied in the public sector. So once the controls are eased, the PRU shows large rises to be

Disputes over pay have left permanent scars on the Service's industrial relations. Selective and limited strikes in 1973 led to the establishment of a study group called the Wider Issues Review Team which had the co-operation of the Civil Service unions to rest" in the Services.

The team's report in 1975 pointed out that the character of the Service had changed:
"Other jobs have become
attractive and more widely
available to those who meet the rvice's recruitment standards, and today the very much larger number of executive officer entrants do not regard the Civil Service or themselves as very special."

Unprecedented

The Government's original offer, tabled a week ago, of 7 per cent stirred even those moderate unions which had been holding back from action into anger. Even the First Division Association, which represents 10,000 senior civil servants, some up to the rank of under-secretary took the unprecedented step of deciding to advise their members to take part in today's action in a move disturbed which deeply Ministers.

The two unions which have led the pay fight, the Civil and Public Services Association, which represents about 119.000

President Begin of Israel

GENERAL

ance policy.

Lixembourg.

conference, Blackpool.

Civil Service clerical staff, and the Society of Civil and Public Servants, representing 105,000 staff 65 per cent of whom are executive grade, said there was no basis for settlement in the

The FDA, the Institution of Professional Civil Servants and the Association of Government Supervisors and Radio Officers are now prepared to recom-mend acceptance. But the unions with a greater number of lower paid members and lower tises due from PRU like the Civil Service Union and the inland Revenue Staff Federa-tion are more sceptical, and acceptance of the offer even by some of the moderate unious is

new offer.

Long-term damage to the machinery of Government done by the strike could be severe The CPSA and the SCPS estimate that so far their campaign of selective strikes, aimed mainly at disrupting cash flow to the Government and to priwate industry, has helted payments totalling £960m (a figure that the Government disputes). All company searches and new company registrations have been halted Payments to defence contractors, VAT repay-ments, farm subsidies, unl-

by no means sacure. .

repayment of National Savings non-industrial civil servants has Bonds and the issue of coinage risen from 493,000 in 1970 to have all been stopped. Scottish courts have been closed down, Foreign Office and

GCHQ Cheltenham communica-tions batted, RAF maintenance work disrupted, and driving tests cancelled. The VAT computer centre at

An unusual view of Whitehall, headquarters of a restive British Civil Service.

for five weeks halting the pro-cessing of VAT returns. Accord-ing fo Mr. Denzil Davies, Treasury Minister, it has held up VAT repayments of £240m. The unions say the computer has to operate for 24 hours a day, seven days a week, in order to deal with day-to-day work. There is no computer time available to deal with the mounting backlog with any urgency, so that the computer may never extch up with the

The effectiveness of union action has stemmed partly from the growth of Civil Service work, and partly from the increasing use of computers in the Service. As legislation has grown more detailed and complicated, more staff has been needed to deal with it. In the past eight years, despite staff cuts and the hiving off of 5,000 museum staff, 7,300 Civil Aviation Authority versity and industry grants, staff and others, the number of

In 1970 there were 103 major Service. Today the number has all but doubled to about 200. About 14,000 civil servants are engaged in computer work, though the unions have been Southend has been closed down able to achieve the effects they wanted merely by pulling out some of the 1,800 operations staff who throw the switches. At the Ministry of Defence computer at Liverpool, for example, which is responsible for the payment of all MoD central contracts to industry only eight were called out

Both unions and the Civil Service Department agree that many of the industrial relations problems pointed out in the Wider Issues Review Team's report in 1975 have in fact been dealt with satisfactorily. But the present strikes confirm that the report's central finding still holds good: "Pay has been the single most important cause of discontent in the Civil Service chere remains a deep and growing anxiety about the future of Civil Service pay. The most important thing for the well-being of the Service is to keep its pay right."

Letters to the Editor

Buying on

From Lord Balogh. Sir,—Samuel Brittan (March .29) ridicules the economists who pay attention to the current balance of payments. Does he not in his private life differentiats between income and borrowing? True enough, if the borrowing results in an offsetting increase in productive capacity, it is advantageous. But can he really maintain that Britain, as a country, has lately done so rather than buying foreign durable (mainly con-sumption) goods on tick? Balliol College, Oxford.

Problem solved

From Mr J-C Koeunc
Sir,—Hasn't the "unsolved theoretical problem" Samuel Brittan uncovered on March 8—"Hopes, risks and a bit of theology"—already been raised and solved by Professor Robert Mundell?

In his "Capital mobility and stabilisation policy under fixed and flexible exchange rates" you will find, I think, "some rigorous professional discussion of these abstruse matters." Here's a sample quotation: "Assume an increase in Govern-ment spending financed by Government borrowing. The increased spending creates an excess demand for goods and tends to raise income. But this would increase the demand for money, raise interest rates, attract a capital inflow, and appreciate the exchange rate, which in turn would have a depressing effect on income. In fact, therefore, the negative effect on income of exchange rate appreciation has to offset exactly the positive multiplier effect on income of the original increase in Government spend-*lng.(...) Fiscal policy thus
completely loses its force as a
domestic stabiliser when the
exchange rate is allowed to
fluctuate and the money supply
is held constant." s held constant." Jean-Claude Koeune. 53 Parklaan, 1980 Tervuren,

Landlord and tenant

From the Press Officer, Small Landlords' Association. Sir,—On March 26 "Justinian" rehearsed the sad story of the council tenant who lost his right to purchase his council house for one-fifth below its market

As he implies, no council tenant has the right to compel his landlord to sell to him. Nor practice it often happens. The probability is that well over 1m dwellings in the private rented sector have been sold to sitting tenants at prices much more than one-fifth below the true

How does this come about? In the case of dwellings subject to "controlled" rents which have been frozen at between 35p and £2.70 per week since 1957, the sale often arises because the landlord cannot raise the finance for heavy repair bills. These properties get sold at about 10 per cent of the true value and the sitting tenant pockets a large capital gain which is not even subject to capital gains tax. examination, for if the com-Sometimes the landlord, suffer- panies want the extra premium, fulfilment being by a payment

ing an impossible relationship they should at least guarantee for, and the delivery of, the with a tenant sells out in despayment of the sum insured. peration and despair. Sometimes the tenant will deliberately 102, Insley Gardens, aggravate that relationship in the hope of getting the property off the landlord cheaply.

Civil Service pensions

Rent Act bestows indefinite security upon the tenant and his children and grandchildren and compounds this with uneconomic rents. So called "fair" rents cover about 20 per cent of true costs. Sales of "fair rented" dwellings to sitting tenants are usually at about one third of the true value of the Supposing it was the other

All this arises because the

the tenant who was bonded indefinitely to the landlord and could only sever the tenancy agreement by paying the landlord two-thirds of the value of the property.

Parliament in general and the Labour Party in particular would be jumping up and down. But with the landlord in that position the Labour Party not only seeks to justify the Rent Act but intends to make it even more onerous upon the land-

Meanwhile, of course, landlords fortunate enough to get vacant possession either do not relet or seek to let outside the Rent Act through the loopholes of licences, holiday lets and company lets. Reprehensible says the Labour Party—these abuses must be stopped. It does not see that far from being abuses these loopholes are the only way the private landlord can retain his sanity and the value of his property.

Small Landlords' Association, 7 Rosedene Avenue.

Reinstatement value

From Mr. P. James

Sir,—The judgment in Lep-pard v The Excess Insurance Company on February 28, reported in The Solicitors Journal of March 16, raises the unfair position that thousands of consumers are in vis a vis their household insurance.

The British Insurance Associa-tion and its member companies have been involved in a massive campaign to persuade people to insure their property for reinstatement value. This has brought in enormous amounts of additional premiums, mainly through their building society agents. This has been done in the certain knowledge that in insurance law they are under no obligation whatsoever to give reinstatement value, and in fact, the occasions when they would are few and far between.

What concerns me is what method, if any, can be adopted the insured, who, at the in-surance company's behest has insured for a value, which, in the event of a claim, they would not pay. Mr. Leppard has some small consolation in that at least the excess premium paid will be refunded, but of course, millions of people never have a claim and in consequence, vast collected for which no corre-sponding indemnity is being

granted. The whole question of reinstatement

payment of the sum insured. Peter R. James. Hucciecote, Gloucester.

From the Managing Director, House Information Services. Sir,—Civil Servants. rejecting the Government's pay offer, keep very quiet about their indexed pensions which we all know will ruin the nation eventually. The private sectorto which they are always referway about. Supposing the tenant ing on matters of "comparability" instead of paying 80 per cent —must find the money for them less than economic rent had to as long as it can while under--must find the money for them pay 80 per cent more. Supposing standing and resenting the

> A. Barrie. 1, Cresswell Park, Blackheath,

Paying the piper · From Mr. J. Towler

Sir.—It is to be hoped that John Cherrington's sensible stance towards the Common Agricultural Policy (Lombard: March 27) and the European Economic Community will rub off on to the Conservative Party. Although recent speeches by Shadow Ministers John Nott and John Biffen suggest that there are seeds of a common approach towards the EEC. there is still a great deal ground to be covered. For far too long Tory attitudes on Europe have been ambiguous and, at times, distinctly "wet." Moreover, as Britain is set

to become the largest net con-tributor to the EEC budget, we would do well to heed the adage that "he who pays the piper calls the tune."

25 Moseley Wood Lane, Cookridge, Leeds.

Gambling and hedging

From the Managing Director, Commodity Analysis
Sir.—Mr. A. H. Hermann— your Legal Correspondent—in his otherwise excellent article on commodity dealing under the heading "Business and the Courts" (March 29) appears to have made some erroneous statements based on a misunderstanding of the difference between 'futures' and 'forward physical contracts', and to have spoilt a rather well written, clearly described article by adding his personal

ethics and

the of economics The purchase, sale and trans shipment of raw materials around the world is normally undertaken by merchants who from time immemorial have been criticised by either buyer or seller because prices are too high or too low, and that they have profited at the expense of the commodity. Nevertheless their function is necessary to conduct an ordered and smooth flow of trade. By necessity they have to buy and sell to and from each other. Very often the number of merchants involved between the original seller and amounts of premiums are being the ultimate consumer may be collected for which no corre-numerous and if the delivery sponding indemnity is being period is some time in advance they have to enter into forward contracts. These are normally value needs described as 'forward physical with their ultimate

a number of people involved it is known as a 'string' or a chain' of transactions.

Mr. Hermann states that "is the question of whether commodity futures of this type should be treated as real contracts of sale." It is important to note that these transactions are not 'futures' Futures contracts are identical contracts in quantity and quality as traced on a futures exchange. The purchase and sale of futures contracts can be matched instantaneously and settlement can be made by the payment of differences. The fulfilment of the obligations of a futures contract (either the payment of the differences or the delivery of goods) is normally undertaken by a clear-ing house, whereas the fulfil-ment of the obligations of a forward physical contract are undertaken by the principals themselves. In referring to two trpes of commodity deals, 28 Mr. Hermann puts it "the supply on one hand and the gambling on the other" seems to have become confused between futures and forward

contracts. would take issue is that he seems to be taking some sort of moral stance in his last sentence when he states "a fresh look at the commodity trade might prove useful to ners and traders alike." would like to point out that this is a subject which socially and economically has been takin issue for very many years and as recently as May 1977 there was printed by the House of Lords the Minutes of the Proceedings of the Select Committee on Commodity Prices which investigated the issue at great length and with which I suggest Mr. Hermann makes himself familiar as it dispelled

normally associated with commodities — namely the dif-ferences between speculatory sambling and hedging. D. M. Anderson Commodity Analysis. 37-39 St. Andrews Hill, EC4

Balanced

views From the Managing Director, Executive Search

Sir,—During the damaging strikes we have suffered over the past few months, the trade union viewpoint has been thrust at us in the media by members of the TUC, trade union leaders shop stewards and even picket-ing strikers. All those not so represented, and each one a loser, have not been heard in the same proportion. Why cannot the CBI, the Institute of Directors, chairmen

and managing directors, even individual managers, find a way of matching this presentation speaking up to put over their views of the national interest, their aims for industry, and the results which can be expected by everyone from their approach to a disciplined, creative. oriented team effort?

Such a presentation will be the more necessary during a period of electioneering when politicians of all parties tend to blur the real industrial issues. Let people make up their minds on the basis of fair and equal representation in the media. Executive Search,

Today's Events

Mrs. Shirley Williams, Education Minister, speaks at Associa-tion of Professional, Executive: visits President Sadat of Egypt in. Clerical and Computer Staffs Cairo.

OFFICIAL STATISTICS Herr Andreas, von Buelow, Final February figures for re-tail sales; hire purchase and other instalment credit business West German Defence Minister, talks in London with British counterpart on security and allifor February, published by Department of Trade.

Overseas: EEC Foreign Mini-sters two-day meeting in Luxem-bourg to discuss international trade liberalisation (GATT). PARIJAMENTARY BUSINESS REC Finance Ministers meet in

House of Commons: Repre-sentation of the People Bill: Arbitration Bill (Lords), remaining stages. Crown Agents Bill, remaining stages. Consents to Prosecutions Bill, remaining

stages, Pneumoconiosis, etc. (Workers' Compensation) Bill. House of Lords: Industry Bill (Money), third reading Nurses, Midwives and Health Visitors Bill, third reading Banking Bill, remaining stages. Estate Agents Bill, remaining stages. Independ-ent Broadcasting Authority Bill, second reading. Air Navigation

Order. Carriage by Air Order. Select Committee: Expendi-ture: Education, Arts and Home Office Sub-committee. Subject: Women and Penal System. Wit-nesses: Baroness Vickers and

representatives of PROS, ECP and PLAN. Room 6, 4.15 pm. COMPANY RESULTS

Final dividends: H. Brammer and Co. Erith and Co. Freemans (London SWS), L and J. Hyman. national. C. F. Lovell and Co. Low and Bonar Group. Mac-farlane Group (Clausman). farlane Group (Clansman).
Mersey Docks and Harbour Co.
Ocean Transport and Trading.
Queens Most Houses. Recklift Queens Most Houses. Reckitt and Colman. Interim dividends: Scottish Metropolitan Property Company.

COMPANY MEETINGS See Financial Diary on page 9.

のことのではなるとは

You've made a great deal of your property for years but ** KF&R know how to get the most out of it We will make that property portfolio really work for you

We expose the hidden growth potential We value, manage and constantly monitor performance We realise potential by selling, by redevelopment or by lease renegotiation

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مكنامن الأجهل

Stronger second half lifts Laird to £11.12m-pays maximum dividend

A SECOND half profit of £6.29m against £5.08m lifted Laird Group to a record £11.12m pre-tax for the 1978 year compared with £9.09m last time. Turnover for the full period was well up at £151m against £119,2m.

Earnings are shown as 15,32p (14.35p) per 25p share and the dividend is effectively stepped up to 2.982p (2.664p), the maximum permitted, with a final payment of 1.522p. Also proposed is a one-for-10 scrip issue.

After tax of £4.09m which in-

cludes £3.11m overseas—las year's charge £2.52m was all over seas—and an extraordinary debi of £690,000, the available balance came out lower at £6.33m

The extraordinary items is the cost of placing subsidiary Western Shiprepairers on a care and maintenance basis, after tax. The amount retained was £5.03m (£5.41m) after dividends £1.3m against £1.16m.

Net asset value per share is given as 1243p (111.7p) at the The directors say that claims

for compensation for the nationalisation of Scottish Avia-tion and Cammell Laird Shipbuilders were made over two years ago and have not yet been agreed. To date some £1.45m has been received on account.

Laird is also involved in metal industry, transport engineering, motor components, other en-gineering, etc.

to expectations showing a 22 per crow

Turnovan

Trading Profit -

dividends

Profit before Tax

Extraordinary Item

Earnings per share

Dividend per share

Profit after Tax

Retained Profit

Nationalised companies -

Reveluation of investments

* Turnover up by 32%

still no agreement

Results 1978

Turnover

· Tax

Profit before Tax

Profit after Tax

Extraordinary item

Profit available for **Ordinary Stockholders**

Car dends

Retained Profit

Dividend Cover

Notes

*Adjusted for capitalisation resug

1. As forecast, a final dividend of 1.522p net is

recommended. This makes a total dividend for

the year of 2.982p net, the maximum permitted

increase over the 1977 dividend of 2.664p net

(adjusted for last year's capitalisation). A one for

2. The tax charge includes overseas tax of £3.11 million (1977; £2.52 million).

ten capitalisation issue is again proposed.

Earnings per Ordinary Stock Unit

Net Dividend per Ordinary Stock Unit

Net Assets per Ordinary Stock Unit

* Trading profit up by 30%

Record profit by Vosper – Singapore

* Extraordinary item - reorganisation

A SUBSIDIARY OF DAVID BROWN HOLDINGS LIMITED

costs in associated company

* Nationalisation compensation —

BOARD MEETINGS Trading, Queens Most Houses, Reckitt and Colman. FUTURE DATES

The following companies have notified at the Street and the Street	och sliy ing not are ons
year's timetable.	

ŧ	interims:	Scottish	Metropolitan
a,	Property.	_ `	
			Erith, Freemans, and J. Hyman,
-	Thomas Jou	ırdan. KC	A international,
t	G. F. Lovell	. Low and	Bonar, Macfar-
-	lane Group ((Clansman)	, Mersey Docks Transport and
ŧ	THE PRINCE	i, Ocean	TIBIISPOIL BING

cent rise in profits last year to fillm. Earnings have marginally fallen because of the more normal tax charge and the extraordinary costs of putting Western Shiprepairers on a care and maintenance basis. But the underlying momentum is forward on the back of heavy capital expenditure. The outstanding jump in sales has come from the transport engineering division; the rise from £27m to £48m reflects the pay-off on orders placed some time ago. More remarkable still is the profits jump on the metal industries side which has chipped in £1.9m this time against £im in 1977.

First half figures this year will be affected by the bad weather and the road hautage strike. The shares, at 117p on Friday, yield less than most engineering com-Laird Group has come well up at 71 is comparable with the

1977

£'000

13,358

1,299

890

2,189

1.586

2,097

4.65p

26.33p

790

17,655

1,693

500

THE

LAIRD GROUP

LIMITED

£'000

150,979

11,116

(4,092)

7,024

(690)

5,334

(1,303)

5,031

15.32p

2.982p

5.1

124.3p

ance basis. It is shown net of tax.

3. The extraordinary item is the cost of placing Western Shiprepairers on a care and mainten-

4. Claims for compensation for the national-

isation of Scottish Aviation and Cammell Laird

Shipbuilders were made over two years ago and

have not yet been agreed. To date, only £1.45 million has been received on account.

12.82p

VO/PER LIMITED

Financial results for the

year 31st October 1978

Goode Durrant sees increase

Autora
B.S.G.
Bank of Scotland
Berwick Timpo
Brown Boveri Kent
Channel Is. & Intl. Inv. Tst.
Chersonise (F.M.S.) Estates
Eact Rand Consolidated
Fothergill and Harvey
Lyon and Lyon
Owen and Owen
Rugby Portland Cement
Taylor Pattister

A PREDICITION that Goode Durrant and Murray Group, the international finance concern. will do better than the £900,000 pre-tax profit in the year to October 31, 1978, is made by Mr. Lionel Robinson, the chairman, in his annual statement.

He expects Rawlings Bros, a wholly-owned subsidiary which made a £48,000 profit against a £4.6m loss, to provide an increasing share of group profit.

The group's overseas operations continue to do well, be adds. The store in New Zealand —Kirkcaldie and Stains—has again achieved record profits and the Southern African and American confirming and financing operations also made substantial

The group has disposed of its Mozambique interests under a sale agreement conditional until

The reduction in group net borrowings—down from £16m to less than £1.5m—has followed the re-shaping of the UK busineses, he says. It has given the group a strong financial base from which to develop its traditional shipping, confirming progress already and we expect to do better this year, he concludes.

Meeting, Durrant House, EC, April 35, at 10 am.

NOTICE TO HOLDERS OF MITSUI REAL ESTATE DEVELOPMENT CO., LTD. (MITSUI FUDOSAN KABUSRIKI KAISRA)

BONDS DUE 1993

Pursuant to Condition 5(G) of the Terms and Conditions under which the above Bonds were issued, notice is hereby given as follows:

1. On March 3, 1976 the Board of Directors of the Company resolved to make a free distribution of shares of its Common Stock to shareholders of record as of March 31, 1976 in Japan, at the rate of 1 new share for each 20 shares hold.

2. Accordingly, the companion who

Accordingly, the conversion price

MITSUI REAL ESTATE DEVELOPMENT CO_ LTD. By: The Bank of Tokyo Trust

£ 000

9,094

(2,520)

8,574

6,574

(1,164)

5,410

*14.35p

*2.664p

*111.7p

5.4

119,241

Deted: April 2, 1979

Upsurge at A.B. **Electronic**

On sales ahead from £8.8m to Electronic Products Group surged from £154,825 to £580,512 in the six months to December 31,

The directors state that they expect full year figures to top 1977's record £915,000. Profits for 1978 fell to £604,000. Haifyear earnings per

share are shown to have risen from 2.8p to 13.7p and the interim dividend is lifted from 2p to 2.5p, payable on June 6.
Profit was after depreciation of

£288,948 (£252,502) and interest of £142,698 (£81,532). Tax took £125,000 (£62,000). More growth is expected, par-ticularly in the field of thick-film micro-circuits, but a combination of UK inflation and the strength of the pound is causing increas-ing difficulty from foreign com-

KENNING MOTOR

Kennings announces that 559.212 ordinary shares of 25p each have been issued pursuant to the conversion of £391,448 8 per cent convertible unsecured loss stock 1989/94 loan stock 1989/94.

The new shares will rank pari passu in all respects with the existing ordinary shares.

Application has been made to

the Council of the Stock Exchange for the shares to be admitted to the Official List.

PRUDENTIAL ASSURANCE

In our report of Prudential's latest bonus rates (March 30). the rate for personal pension plans in force for 22 years was

Japanese funds for Nabarlek

BY KENNETH MARSTON, MINING EDITOR

WORK at Nabarlek, which is seven scrip issue. The shares to be the first of Australia's were unchanged at 345p in major uranium deposits in the Northern Territory to be brought

At the Sydney meeting the to production, is to get under way in May-June now that Queensland Mines has arranged financing of the project with its Japanese

customers.

The Japanese power utilities, Shikoku Electric Power and Kyushu Electric Power, are to lend Queensland Mines a total AS74.75m (£41m). The companies are expected to buy about 60 per cent of Nabarlek's esti-mated potential output of 10,000 tonnes of uranium oxide.

It is intended to mine the whole orebody over about six months. The ore will then be stockpiled and processed over eight to ten years at a production rate of about 1,100 tonnes of uranium oxide a year.

Queensland Mines hopes by late-1980 to be producing enough of the yellowcake to meet its Japanese delivery contracts. They were signed back in 1972 and until now have been met by borrowings from the Australian Atomic Energy Commission. Shikoku's president, Mr. T. Yamaguchi, has stressed that his

company is not seeking any equity stake in Queensland Mines or participation rights in

UMAL EXPECTS A BETTER YEAR

This year should be "acceptably good" for both Utah Mining Australia (UMAL) and its 10.8 per cent-owned Utah Develop-ment. The last-named is Australia's largest coal producer and major revenue earner and is 89.2

UMAL chairman, Mr. C. H. Rennie, added that he saw 1979 as a year of return to growth, although the rise was expected to be gradual in the near term.

ROUND-UP

Wankie Colliery, the Rhodesian cual producer in the Anglo American group, maintained its interim dividend at 3 cents 2.1p) for the year to August 1979. Total payments for 1977 78 were 9 cents. Net income in the six months to February was R1.59m (fl.1m), a slight decline on the R1.72m earned in the same period of the previous ear, owing to accounting changes.

Last week's severe floods in north Yorksbire have not affected the controversial potash mine at Boulby of Charter Consolidated's Cleveland Potash.
After its past chequered progress, the mine's fortunes are believed to have taken a turn for the better in recent months.

Agaico-Eagle, the Canadian precious metals producer, has declared an initial dividend of 10 US cents (4.86p) for 1978 after a record year when net profits were \$2.6m (£1.28m) against a loss of \$361,361 in 1978. Prospects are good for this year, the company indicated.

Conex Australia stated it had resolved its dispute over diamond exploration claims with Samantha Mines, Otter Exploraper cent owned by America's sidary, A.S. Mining Ventures. A bulk sampling programme will declined to AS15.4m (£8.4m) take place at what is now their from AS16.3m. However, the company is making a three-for-

A corporate plan covering the this backlog will be recouped as again show a material improvement three years has recently more normal conditions are ment over last year in spite of been completed by individual restored. management of the Vantona Group, Mr. James Spooner, the chairman, says in his annual

The board has sufficient confidence in the results of this exercise to confirm a programme of capital expenditure costing more than £10m in the next three

Both this and the additional turnover of £82.43m against working capital arising will be financed from internal sources, £5.61m after adjustments for the chairman says. The immediate future gives

cause for concern, however, Mr. Spooner states. The first three a healthy state. After providing However, the board is of the months' sales and profits have the £9.3m cash consideration for opinion that no material loss will been affected by industrial unrest the Compton Webb shares as well be incurred and therefore no proand the climate. So far the group has suffered

Vantona expenditure plans

possible reduction in purchasing power is a distinct possibility, so that any optimism as to the outcome for the year to November, 1979 has to be very guarded at this stage. In 1977-78, profits before tax

rose from £6.73m to £7.31m on depreciation, £1.1m, cost of sales, £1.08m and gearing, £471,000.
'Again the balance sheet is in

as record capital expenditure of So far the group has suffered \$2.5m group overdrafts at the very little loss of production, but year end amount to £3.6m.

deliveries have inevitably been. Net current assets are slightly. Meeting, held up. It is boped that most of improved while total reserves. at 2.30 pm.

restored.

For the rest of the year some fultering in demand because of acquisition of Compton Webb. During the year, a subsidiary was involved in negotiations for

the supply of cloth for use by the fronian Army. No deliveries have yet been made. If the arrangements are frustrated due to present circumstances in Iran, cioth to a value

of £640,000 may have to be taken up with no immediate re-sale arangements existing. It is not possible at present to estimate the eventual outcome of this matter.

vision has been made in accounts for any loss or claim which might arise. Meeting, Manchester, April 24

Piran ginger group considers legal action

BY JAMES BARTHOLOMEW

THE DISSIDENT shareholders of Saint Piran would have succeeded the EGM last Friday if certain proxies cast on the boards side had been discounted as invalid, Mr. Max Lewinsohn, leader of the rebel group said yesterday.

Mr. Lewinsohn has been advised by Coopers and Lybrand, the scrutineers appointed by him, that there are grounds for regarding several of the biggest proxy votes as invalid. He is considering taking legal action to remedy the situation this week. Proceedings were "almost inevit-

able," he said.

It is the proxy votes sent by some of the seven offshore companies which have become so controversial. The dissident controversial. The dissident shareholders failed last week to obtain an injunction to prevent these companies voting because they had given information about their beneficial ownership which was allegedly unlikely to be true.

Mr. Lewinsohn conceded 3esterday that some of the seven had presented valid proxies but claims that the disputed proxies represented something like 2m

votes. The dissidents would have won the day if these votes were not counted as the board had a majority of 1.3m votes.

Mr. Lewinsohn claimed that shareholders had voted 3 to 1

in favour of throwing out the Board if the votes cast by all seven offshore companies and the company controlled by Mr. James Raper, a former chairman and the biggest single shareholder, were ignored. Mr. Lewipsohn noted that at

least six of the seven offshore companies had sent their votes from London post hoxes despite the fact that the companies were registered variously in Hong Kong, Luxembourg and Panama. Whether or not Mr. Lewinsohn whether or not Mr. Lewissonh actually does take legal action on the poll, the story is not over. The EGM last Friday was adjourned and will be resumed on Wednesday. April 11, at 2.00 pnt.

MARLEY IN BRAZIL

Marley has increased its holding in Fademac Brazil from 36 per cent to 49 per cent with Eternit of Belgium as the joint partner.

Fademac is investing in excess of film to increase production capacities and guild a new floor-ing line to produce Marley's latest domestic flooring. Marley's original investment in Fademac was £312,000. The suc-

cess of the company has permitted a liberal dividend policy and Marley's capital has been receipt of dividends totalling £530,000.

In the year 1977-78, Fademac earned profit after tax of £1.2m. in ousting the current board at Profits for the first four months of 1978 are well ahead of the

hol

previous year.
Marley has also entered a 50/50parmership with Eternit of Switzerland in a new company. called Tagula. The company will commence production of concrete roof tiles for the rapidly expanding Brazilian market.

Initial investment in Tegula will total over £2 m. This will be the first major concrete roof tile plant in Brazil. Other possible sites are being investigated and it is expected that more factories will be opened over the course. of the next few years.

Tegula has established a subsidiary company for the purpose of quarrying aggregates which will be necessary for roof tile

W. E. NORTON

production.

BUYS SITE

W. E. Norten (Holdings) has completed the purchase of a freehold property and development land comprising industrial premises at Haddenham, Aylesbury, Buckinghamshire. The vendors are private companies controlled by Mr. A. D. F. Creighton.

Creighton. Creighton.

The consideration has been satisfied by the issue of 441,965 ordinary shares plus £150,000 cash, payable in three equal instalments on July 1, 1979; January 1, 1980 and July 1, 1980. The property has been pro-fessionally valued at £235,000 on the basis of its existing use and its occupation by Norton its occupation by Norton, making full use of the land and buildings. The valuation excludes certain items of plant which are being purchased, in particular a

NO PROBES following

mergers are not to be referred to the Monopolles Commission: National Enterprise Board and parts of Vickers Offshore Engi-

25-ton overhead travelling crane.

parts of Vickers Unshore Engineering Group;
Comet Radiovision Services
and Caledonian Holdings;
London and Midland Industries and Caledonian Holdings; Harris Queensway Group and Timberland.



12.856

The Fifty-fourth Annual General Meeting of The Scottish Eastern Investment Trust Limited will be held on Monday, 23rd April 1979 at the offices of the Company, 29 Charlotte Square, Edinburgh, Mr. A. Logan McClure (the Chairman) presiding.

Total Revenue as shown in the Accounts increased from £4.442.098 to £5,085,823 and after charging interest on borrowed money, management expenses and taxation, the revenue available for distribution amounts to £2,778,443 compared with £2.339,348 previously.

The Directors recommend a final dividend of 2.80p per Ordinary Share which, with the increased interim dividend already paid, makes 4.80p for the year, company with 4.05p last year. After provision for the dividend the revenue carry forward is increased by £181.518.

OUTLOOK The economies of the major developed countries of the free world made better than expected

disrupted by international currency movements.

Currency volatility has not only created great problems for businessmen and investors, but has also impeded the economic planning and domestic policies of governments. Last November a determined effort was made by the U.S.A. authorities to halt the decline in the value of the dollar. Since then it appears that the major monetary powers have agreed to act in concert to mitigate currency movements. Although it is hoped that exchange rates will be more stable in 1979, it still seems wise to maintain a broad geographical spread of assets.

Wall Street currently reflects the masse caused by interruptions to entire the angles force of

oil and may soon have a government committed to encouraging private enterprise. However, until it becomes clear that the critical situation in the Middle East can be resolved pracefully, and the governments in London and Washington are fully committed to responsible monetary and fiscal policies, a difficult period ahead is expected.

Estimated future earnings of the companies in which the Trust has investments in the U.K., U.S.A. and the Far East indicate that there is scope for higher dividend income in the year ahead. However, these estimates could easily be upset by events and, rather than committing ourselves to any specific forecast of revenue which highlit have to be attained at the expense of capital, we prefer to direct our attention to the long term growth of both. At present it does not seem likely that increases in line with those of 1978/79—when both dividends and not asset value were up 18 per cent approximately—will be attainable, but this will be the aim.

It is proposed to make a capitalisation issue of 52.8m Ordinary Shares of 25p each in the ratio of one new share for each share held. The new shares will not receive the final dividend declared in respect of the year ended 31st January, 1979.

	ו השנו פוועכט ס	rear elified 9 (2) latingta			
	1979	1978			
Tolal Revenue	£5.085.823	£4:442.09			
Earned per Ordinary Share	5.11p	4.27			
Paid per Ordinary Share	4.80p	4.05			
Total Net Assets attributable to Ordinary Sha Net asset value of each Ordinary Share	ares £95,218,601	£80.613.66			
Prior charges at par	180.3p	152.7			
Prior charges at market value	186.8p	158.4			
Number of Ordinary Shareholders	9,000	9,30			

THE SCOTTISH EASTERN INVESTMENT TRUST LIMITED

The following are extracts from the Directors' Report for the year to 31st January 1979:--

At the year-end, the total net assets attributable to Ordinary Shares were £45,218,601 compared with £80,613.668 last year. Based on these figures, the Net Asset Value of an Ordinary Share was 180.3p compared with 152.7p a year ago.

At 31st January 1979, 89.7 per cent of the funds was invested in equities with 34.2 per cent of the total in North America and a further 8.6 per cent in other overseas countries. 8.2 por cent was held in

progress in 1978, all recording real growth in goods and services of at least 3 per cent. This provided a reasonable background for industry and commerce in home markets, but world trade was seriously

Wall Street currently reflects the unease caused by interruptions to crude oil supplies, fears of much higher energy prices, and a period of slower growth ahead. This may present an attractive opportunity for the long term investor but, with interest rates likely to be held high to combat inflation and protect the dollar, no early change in sentiment is looked for. In London, share prices, as measured by the All Share Index, have recently moved into new high ground. This move seems to have been prompted by the realisation that the United Kingdom now has a relatively secure supply of oil and may soon have a government from the degree of the proposed in the street of the street

CAPITALISATION ISSUE

THE YEAR IN BRIEF

•	Year ended 3	
Total D	1979	1978
Total Revenue	£5.085.823	£4;442,099
Earned per Ordinary Share	5.11p	4.27p
Paid per Ordinary Share	4.800	4.05p
	•	F
Total Net Assets attributable to Ordinary Shares	£95.218.601	£80.613.668
Net asset value of each Ordinary Share		
Prior charges at par	180.3p	152.7p
Priot charges at market value	186.80	158.4p
Number of Ordinary Shareholders	9.000	9 300

Copies of the Annual Report may be obtained from the Secretaries. 29 Charlotte Square, Edinburgh EH2 4HA.

THOMAS WITTER

AND COMPANY, LIMITED

Manufacturers of Smooth-surfaced Floor Coverings, Broadloom Carpets, Bituminised Roofing Felts, Asbestos Felts, Packaging Board, etc.

RESULTS REACH RECORD LEVELS ANOTHER GOOD YEAR IN PROSPECT

The Sist Annual General Meeting of Thomas Witter and Company, Limited was held on 30th March at Chorley. The following are extracts from the circulated statement of the Chairman, Mr. H. Bowser.

Chairman, Mr. H. Bowser.

For the year ended 30th November 1975 the pre-tax profits rose to a record figure of £1,873,375 against £878,387 last year. Turnover at £28,483,000 was up 19.70%.

The Board recommend the payment on the 4th April 1979 of an increased final dividend of 2.8413443p per share, making a total for the year of 3.5113443p, equivalent to a gross dividend of 20,983% as compared with 19.0575% last year.

The record sales and profits in the year were die to The record sales and profits in the year were due to higher productivity and the new developments achieved in our

manufacturing units. Service to customers improved and all products returned increased profits. The continued development of new products and the pursuit of additional outlets for our products both at home and overseas is being vigorously maintained. The returns from our Subsidiaries are still unsatisfactory. Every effort is being made to ensure improvements.

The current financial year started well but the crippling road baulage strike and secondary picketing forced the closure of our felt mill at Heapey for the duration of the strike, and for lesser periods of time at our other factories. These disruptions involved us in a serious loss of production which cannot be made good and will have an adverse effect on profits. However, we look forward to having in all another good year, provided always, problems not of our making, or beyond our control are not thrust upon us

beyond our control, are not thrust upon us.

LOCAL AUTHORITY BOND TABLE

Authority (telezhone number in parentheses)	Annual gross interest	pay-	Minimun	Life a of bond
-	%		£.	Year
Knowsley (051 548 6555)		}-year	1,008	5-7.
Redbridge (01-478 3020)		1-year	200	45
Sefton (051 922 4040)	117	≟-year	2,000	5.7
Wrekin (0952 505051)	124	yearly	1,000	6-10

FINANCE FOR INDUSTRY TERM DEPOSITS Deposits of £1,000-£50,000 accepted for fixed terms of 3-10 years. Interest paid gross, half-yearly. Rates for deposits received not later than 124.79.

Terms (years) 3 5 Interest % 11 114 114 114 114 114 124 12 Deposits to and further information from The Chief Cashier, Finance for Industry Limited, 91 Waterloo Road, London SE1 SXP (01-928 7822, Ext. 177). Cheques payable to "Bank" of England, a/c FFI." FFI is the holding company for ICFC and FCI.

Edinburgh 19th March 1979

Companies INTNL. COMPANIES and FINANCE PENDING DIVIDENDS RECENT ISSUES

Ahold seeking further acquisitions overseas

supermarket chain, expects it retailers, will be difficult to maintain net Follow. accept more moderate rates of growth and more effort will go now makes 20 per cent of its years led to a loss of market into improving internal manages and 22 per cent of its share, but profits are expected ment, logistics and marketing, operating profits outside Holto improve this year after fall-said Mr. Albert Heijn, the land Sales of Bi-Lo, which has ing in 1978. ment, logistics and marketing, said Mr. Albert Heijn, the

Spending on foodstuffs in Holland this year is expected to rise by only 1-1.5 per cent following an increase of 3.5-4 per

The company nevertheless opening 10 new supermarkets which report plans to open a further 25 will also depress profits. In group Board. stores this year, in some cases Spain, Ahold does not expect to The company described 1978 replacing smaller stores. It has start making profits until 1980. as "generally satisfactory." It in the U.S. and Spain. It sees stores this year, bringing the rise in net profit to F1 48.6m good prospects for its recent total to eight. Delays in gain- (\$24.3m) on sales 19 per cent move into the operating of staff ing building permission for new canteens, while its own food outlets, often due to local politi- The return on own assets rose processing operatings, which cal factors, have held back exto 15.9 per cent from 13.3 per include a bakery and dairy, will pansion. Sales rose 25 per cent.

Sluggish year

for Advertiser

By Our Sydney Correspondent

ADVERTISER Newspapers, the

media printing and packaging group, was held by its media

activities to a profit increase in 1978 of only 6.9 per cent. Earn-

ings for the year to December 31 rose from ASS.9m to a record

failed to keep pace with the growth in sales, which rose 14

The group results rose only 1.3 per cent in the second half-

year, after a gain of 16.7 per

cent in the first six months. The

directors warned at the half-way mark that the depressed

advertising market would be

reflected in lower media results

for the full year: and the profit

from the newspaper division

fell 5.5 per cent for the year.

The circulation of the Adelaide

Advertiser, the major publica-tion, dipped fractionally.

per cent, from A\$83m A\$95m (U.S.\$107m).

A\$9.5m (U.S.\$10.7m). The profit

Newspapers

103 stores in the South Eastern

670 outlets in Holland and 108 It hopes to open a further three

AHOLD, HOLLAND'S largest increase sales to non-group to around FI 10m last year. retailers. The company will continue
Following the takeover of the with the re-organisation of its prosit margins in 1979. After a U.S. chain, Bi-Lo, in 1977, and 107 Simon de Wit discount period of strong expansion the its integration into the group, stores in Holland this year. Ahold is now looking at other Tough competition from lower potential acquisitions abroad. It priced competitors in recent

> Ahold has now decentralised U.S., rose 15 per cent to \$460m its operations into five largely Bi-Lo profits, expressed in autonomous divisions: retailing autonomous divisions: retailing autonomous divisions: retailing in Holland, the U.S. and Spain, changed in 1979 due to the slow food processing and restaurants and leisure parks. Each division inflation. The costs of sion has its own management opening 10 new supermarkets which reports directly to the

earlier announced a 32 per cent (\$24.3m) on sales 19 per cent higher at F1 4.94bn (\$2.47bm).

Scrip issue from BHP

BY JAMES FORTH IN SYDNEY

the company announced a sharp or more than was earned in the full 1977-78 year,

to a turnaround from losses to out to almost 70 cents a share.

AUSTRALIA'S largest company profits by the steel division— Broken Hill Proprietary (BHP), BHP is the country's only steel has announced a onefor-five scrip issue—its from the oil and gas division.
first handout to shareholders
since 1974. The issue and higher production and comes only a few weeks after
the commany appropriated a characteristic commany appropriated a characteristic commany appropriated a characteristic commany appropriated a characteristic commany appropriate comman jump on profit for the November to May topping A\$180m. On this half-year to A\$87m (U.S.\$97m), basis earnings, per share would

Avco profits move up

BY OUR SYDNEY CORRESPONDENT

result followed an increase of average cost of borrowed funds almost 17 per cent in total edged up from 11.41 per cent receivables, from AS157m to to 11.93 per cent.

AVCO FINANCIAL Services, A\$183m, of which consumer one of Australia's leading shop loans accounted for A\$163m front financiers, lifted its profit compared with A\$138m by 9 per cent, from A\$10.3m to

A\$11.2m (U.S.\$12.5m) in the business during the year rose November 30. The from A\$91m to A\$104m. The

lead to profit for the full year have risen from 31 cents a share in more than 80 cents. On yearend capital increased by the The increase was largely due scrip issue, it would still come

has Canada bid

Life Assurance of Canada plans to make a tender offer Continental American Life Insurance for \$33 a share

The proposed offer would be conditioned upon Imperial receiving at least 404,027 shares of Continental Continental American. 50.1 per cent or the total shares outstanding or issuable, subject to stock options, it said.

Imperial noted that it had been discussing a merger with Continental American December, 1978, but Continental American had deferred action on the proposal until May 1, 1979. Reuter

Mar. 20

Gold Bullion (fine ounce)

Krugerrand, \$264 \(\perp \) -268 \(\perp \) \$261-20 \(\perp \) \$2128-130\(\perp \) \(\perp \) \$252-1

862-64 8621-4

May, 20

For the convenience of readers the dates when some of the more important company dividend statements may be expected in the next few weeks are given in the following table. The dates shown are those of last year's announcements, except where the forthcoming Board meetings (Indicated thus*) have been officially published. It should be emphasised that the dividends to be declared will not necessarily be at the amounts or rates per cent, shown in the column headed "Announcement last year," Preliminary profit figures usually accompany final dividend announcements. Announce-Texaco sets Lifo rules on foreign

TEXACO, the third largest U.S. oil company, has extended last in first out (Life) accounting to its foreign inventories since the begin-ning of this year, the company announced at the end of last week.

inventories

Texaco has been applying Life accounting to domestic inventories of crude oil, petroleum and petrochemicals since 1974, but it decided to extend this form of accounting to foreign inventories so as to register the effect of increased costs on earnings more promptly, it said.

Most of the large U.S. oil companies have been using Life accounting for some years, and particularly since the last fuel price explosion in 1974.

In inflationary times, Life has the advantage of reduc-ing tax liability, but at the cost of lowering profits as well. However, high profits have proved to be more of a curse than a blessing to oil companies at times of energy crises, and Life therefore serves a useful purpose when oil companies want to avoid accusations of profiteering.

Cont. American

NEW YORK — Imperial

	Announce-		Announce-
Dese	MINICIA	73	
Date	ment last	Date	ment last
	150		year
Assocd. Biscuit		MiretApr. 27	Forel 1,271
ManufetraApr. 10	Final 1.88 /cst.	*Morgan	
AuroraApr. 9	Final 3.96	CrucibleAgr. 5	Final 2.204
Behcock and		Mothercare Max 4	Firtal 1.904
WilcoxApr. 12	Final 2.892	Moviem	1 1/1 1
Bank of			F11 F 0
ScotlandApr. 3	E I E 440	(John)Apr. 20	Final 5.0
Lirrow	Final 5.449	Nat. and Comm.	
	C	BenkMay 4	Int. 1.375 ·
HepburnMer. 8	Final 1.9331	*Ocean	
live Circin	·	TransportApr. 2	Final 4.3273
.indsApr. 13	Final 6.4523		Final 2.34
SowsterAgr. 5	.Final 5.7864	*OfrexApr. 5	ITME1 2.34
British Home			
StoresMay, 2	Final 3.473	_ AssuranceApr. 5	First 8.735
Botsh Printing	1111111 07170	Pearson	
CorpnApr. 5	Final 2:4-fcst.	_ LongmenApr. 21	Firm 4.236
British SugerMay 3		Pearson (S.)Apr. 21 P and OMay 3	Firm) 6.803
Sunsu Sederinsh. 3	Int. 1.65	P and OMay 3	Figure 3 542
Brown Bovers		Phosnix Assos. Apr. 5	Fig. 5.77
KenzApr. 5	Final 1.0	Ready Mixed	1 (1181 2.72
Cadbury ·	-		E10 E
Schwegges., Apr. 5	Final 2.08142	ConcreteApr. 13	Final 3.27
ape IndsApr. 8	First 5.302	*Reckets and	-
Consd.	t tiret Justin	Colman, Apr. 2	Final 5.95478
Control Control	1 4	*Reed	
Gold FieldsApr. 4 oral LeisureApr. 20	Int. 3.1916	··(Austin)Mer. 29	Final 1.858
-oral LeisureApr. 20	Final 3.6 fcst.	*Rowntree	11
Crode IniniApr. 11	Final 1,192		Et 1 € 445E
CurrysApr. 17	Final 4.54	MackintoshApr. 9	Final 5.4175
Dickinson		*flugby_Pordand	
RobinsonApr. 10	Front 5,448	CementApr. 23	Final 1:806
NODINAUAPOI. IO		Sainsb'y (J.) May 3	Final 3.987.
PunlopApr. 20	Final 2.65	Scottish	
agle StarApr. 12	Figst 3.1262		Int. 0.9
European'		Sears HidgsMay 4	
FerriesApr. 26	Final 1.8	Simon	Final 2.58
Gerrard Nat.			
DiscountApr. 26	Final 4,171	EngineeringApr. 24	F1921 5.0682
Gill and	P. bonds -4	*Slong h	•
	E'- 4 E64 form	Errotte, Mar. 28	Final 1.515
DalfusApr. 10	Fin. 2.564 fcst.	"Smith (W. H.) Agr. 11	Frnal 0.2978
3lexo	Int. 4.5	"Smiths ladsApr. 10	Int. 3.2853
SlynwedApr. 11	Final 5.75		Int. 2.2
Guardian Royal		Smurfitt	C
ExchangeApr. 11	Final 5.9304 *	(Jefferson)Apr. 27	Final 4,867
Suest Keen and		Spirax-Sarco Apr. 3	Finat 5.19
	Ele-II 10 056	*Sun Alliance Apr. 4	Figal 9,245
NettlefoldsApr. 5	Final 10,059	TarmacApr. 27	Final 6.334
lammerson Prop.		*Taylor	
and InvApr. 28	Final 5.46		Fin: 6,4953 fcm
Laurker		Woodrew:Apr. 5	PTIN: 0.4900 TGB
SiddeleyApr. 18	Final 2.201	Telephone	
lapworth (J.) Apr. 21	Int. 0.72	RentalsApr. 25	4.3
tahennini (2.) Mar. 51	101. 0.72	Tozer Kemsley	
towden		& MillbouraAgr. 25	Final 2.2702 .
StuartApr. 10	Final 0.2084	Travis and	111401 0101400 .
lowden			ET-12 424A*
(Alexander) Mer. 29	Final & Dil	AmoldApr. 25	Final 3.1219
WTMar. 30	Inv. 3.586	UDS	Final 3.0
adhants for E	Final 4.0	UDS	'Final 5.0984
AGDIGKE		Wadham	
aing (J.)May 2	Final 1.665	StringerMay 2	Final 1.21
adbrokeAgr. 5 aing (J.)May 2 ead indsApr. 11	Final 4.37		Citation .
oodon BrickApr. 5	Finel 1.9802	Wimpsy	F1 1 0 0045
aw end		(George)Anr. 27	Final 0.0810.
BonerApr. 2	Suppl 7 39		
ponerapr. 2		•	
Marks and		6 Board marriage India	and the States

issue since made. & Tex tree. & Scrie

CORAL INDEX: Close 531-536

I.G. Index Limited 01-351 3466. 3 months Copper 1022,1-1030.4 29 Lamont Boad, London, SW10 0EES.

1. Tax-free trading on commodity futures.

2. The commodity futures market for the smaller investor.

INSURANCE BASE RATES

Property Growth Property Growth 12% Vanbrugh Guaranteed 10.50%

CLIVE INVESTMENTS LIMITED 1 Royal Exchange Ave., London EC3V 3LU. Tel: 01-283 1101. Index Guide as at March 20, 1979 (Base 100 on 141.77)
Cive Fixed Interest Capital 148.52
Cive Fixed Interest Income 121.50

ALLEN HARVEY & BOSS INVESTMENT MANAGEMENT LITO. 45 Combill, London, ECSV 3PR, Tel.: 01-623-6314. Index Guide as at March 29, 1979 Capital Fixed Interest Portfolio ..

Income Fixed Interest Portfolio

EQUITIES

										_	_
issue Price	Amount Paid Up	Latest Renunc. Dale	197 High	8/79 Low	Stock.	Closing Price	+ or	DIV. P. Or Amount	Covered	Y Poss	Pario.E.
(95 65 95***	F.P. F.P. F.R.	20/2 16/2 9/2 20/4	174 170 42	66 11 8 31	Caledonian Hktgs Hunting Assoc. Defd.	166 40	+ 5 -4 -2 -6	0.7 87.3	1.6 1.6 2.1	= }	_
;		F	ΧE	D I	NTEREST S	то	CK	5			
Iteue P	Am'unt Paid up	Latest Renuno Date	197 High	8/79 Low	Stoc	ek			Clouing	Price &	+ <u>o</u> r

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CO	OFF		TE	2101	ti B

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lesue Price pt	Am'unt Paid up	Lat Reni Da	unc_	197 High	8/9 Low	Stock	Closing prides pt	+-
116	F.P.	30/3 6/3			147 65	Brammer (H.)	160 B2	+5+2
60 · 88 88	F.P.	30/3 14/2	27/4 6/4	117	108	Cement Roads to	108 296	
220 53. 185	F.P.	22/3 23/3	4/5 18/5	43 233	38	Hirst & Mailinson Johnson Matthey	42 228	2
67 44	F.P.	7/8	20/4	284 pm	7410	Macpherson (D)	103 25pm	<u> </u>
225 59	FA.	12/3 23/3	20/4 19/5	298 79	73	Rank OrgRedman Heenan	78	10 +1
27 315	8	14/3 12/3	25/4 2/4	37 406	245	Sekers Inti	390 390	-12 -12

Renunciation date usually lest day for dealing tree of stamp duty, b Figures based on prospectus estimate. g Assumed dividend and yield, a Forecast dividend: cover based on previous year's agmings. F Dividend and yield based on prospectus or other official estimates for 1979. Q Gross, T Figures assumed. Cover allows for conversion of shares not now ranking for dividend or ranking only for restricted dividends. § Placing price to public. pt Pence unless otherwise indicated. I lasued by tender. Ø Offered to holders of ordinary shares as a "rights," * Issued by way of capitalisation. § Reintroduced. M Issued in connection with reorganisation, merger or take-over. Ø Introduction. Issued to former preference holders. M Allotment letters (or fully-paid). Provisional or partly-paid allotment letters. * With warrants, † Unlisted security.

BASE LENDING RATES A.B.N. Bank Allied Irish Banks

Allied Irish Banks Ltd, 18 %	Hill Samuel
Amro Bank 13 %	C. Hoare & Co 13 %
American Express Bk. 13 %	Julian S. Hodge 14 %
A P Bank Ltd 13 %	Hongkong & Shanghai 13 %
Henry Ansbacher 13 %	Industrial Bk of Scot. 131%
Associates Cap. Corp 14 %	Keyser Ulimana 18 %
Banco de Bilbao 13 %	Knowsley & Co. Ltd 14100
Bank of Credit & Cmcs. 13 %	Lloyds Bank 13 %
Bank of Cyprus 33 %	
Bank of N.S.W 13 %	Edward Mauson & Co. 14 %
Banque Belge Ltd 13 %	Midland Bank 13 %
Banque du Rhone et de	Samuel Montagu 13 %
la Tamise S.A 131%	Morgan Grenfell 13 %
Barclays Bank	- National Westminster 13-%
Bremar Holdings Ltd. 14 %	Norwich General Trust 13 %
Brit. Bank of Mid. East 13 %	P. S. Refson & Co 13 %
Brown Shipley 13 %	Rossminster 13 %
Canada Perm't Trust 13 %	Royal Bk. Canada Tst. 13 %
Cayzer Ltd 13 %	Schlesinger Limited 13 %
Cedar Holdings 13 %	E. S. Schwah 14 %
Charterhouse Japhet 121%	Security Trust Co. Ltd. 14 %
Choulartons 13 %	Shepley Trust 15 %
C. E. Coates 13 %	Standard Chartered 13 %
Consolidated Credits 13 %	Trade Dev. Bank 13 %
Co-operative Bank*13 %	Trustee Savines Bank 13 %
Corinthian Securities 13 %	Twentieth Century Bk. 14 %
Credit Lyonnals 13 %	United Bank of Kuwait 13 %
The Cyprus Popular Bk. 13 %	Whiteaway Laidlaw 131%
Duncan Lawrie 13 %	Williams & Glyn's 18 %
Eagil Trust 13 %	Yorkshira Bank 13 %
English Transcont 131%	Members of the Accepting Houses
First Nat. Fin. Corp 15 %	* 7-day deposits . 10½%, 1-month
First Nat. Secs. Ltd 14 %	deposits 10% %.
Antony Gibbs	† 7-day deposits on sums of £10,000
Greybound Guaranty 13 %	and under 10%% up to £25,000 11% and over £25,000 11%%.
Grindlays Bank	# Cell deposits over £1,000 105%.
Guinness Mahon 13 %	Demand deposits 11%.

Building increased earnings

Higher Profits 1978 Group profits increased by 24% to £274 million.

Dividends Rise

Final dividend of 2.84 pence per share recommended, making a total of 4.21 pence for 1978, up 13.2%. Dividend cover 1.35 times.

Bonus share issue of 1 for 10 proposed. Dividend for 1979 expected to be maintained on increased capital.

Bonus issue

Properties Revalued Revaluation of most of our Central District properties

shows surplus of £271.8 million. Developments

Gammon House purchased. Pand O building sold at substantial profit, to be

existing properties are fully let.

reflected in 1979 accounts. Three new joint ventures in New Territories: one industrial, two residential.

Acquired outstanding shareholding in City Hotels Ltd. which became wholly owned. Group's Hong Kong commercial and residential development projects airnost fully pre-let. All

Financial Resources Over HK\$600 million (£58.8 million) raised through issue of Unsecured Loan Stock 1984/93 with

Gammon House mainly financed by loans of £68.6

No present need for further borrowing. Borrowing: -

Present/planned owned in Hong Kong

-Building Future Profits Earnings increase expected from development programme with 1.6 million sq. ft. commercial lettable space to be added by 1983. Main impact

D. K. Newbigging, Chairman Hong Kong, 29th March, 1979

expected 1980 onwards.

	1978	1977
	£	£
Group profit		
aftertax	27,400,000	*22,100,000
Dividends	20,200,000	17,900,000
Shareholders*		
	*548,300,000	290,300,000
Earnings per share	5.69 репсе	*4.59 pence
Dividends per share	4.21 pence	3.72 pence
Net assets per share	**1.14	0.60

deflocts property revaluation as at 31/12/78 The Hong Kong Land Company Ltd.



GOLD

CURRENCIES, MONEY and GOLD

Sterling and the EMS

BY COLIN MILLHAM

week than any of the currencles actually embraced by the system.

The reason was the pounds link with the Irlsh punt, which the Irish central bank was forced to break on Friday morning. Trading in the punt was suspended at the same time, as the Irish currency rose above its bighest per mitted level against the weakest member of the EMS, the Belgian

CURRENCY RATES

March 28	rate	Special Drawing Rights	Currency Unit
Sterling	18	0.622018	0.655152
U.S. \$	91g 1	1.28682	1.35172
Canadian 5	114	1.49348	1.56773
Austria Sch.,	5-4	17.6282	18.5118
Belgian F	6	38.0127	59.9434
Danish K	ă	6.68063	7.01814
D mark	3	2.40327	2.52529
Guilder		2.59166	2.72291
French Fr	912	5.52947	5.80903
Life.		1080.80	1135.45
Yen	40.0	269.331	283.456
	7	6.57308	6.90325
Nrwgn. K		87.7586	92.5855
Spanish Pes.			5.90662
Swedish Kr	A13 .	5,62533	
Swiss Fr	1 .	_	2.28820

sterling continued to rise. For the first time since the

system began on March 13, the punt had been the strongest member. It displaced the Italian lira, which during the early part of the week had vied with the Danish krone for the position at the head of the EMS.

When the EMS was first suggested by the leaders of France and Germany it was the fear of the strain on weak cur-rencies which made Britain, Ire land and Italy hesitant about joining. It therefore seems somewhat perverse that the currencies of three of the poorer members of the EEC should have appreciated sharply, while the German Dmark has depreciated.

Apart from this the new system does bear some comparison with the old European currency snake. Over recent months the Danish krone was the strongest member of the snake.

I Sterling, the only Common franc. Later on trading resumed, weakest. Last Monday and Tues Markel currency outside the and after intervention the punt day the krone was the strongest European Monetary System, was retreated behind the Italian lira member of the EMS, but rethe cause of more problems last and Danish krone, even though turned that honour to the lira on Wednesday and Thursday.

The Dutch guilder, French central rates, while the

franc. Dmark and Balgian franchave all depreciated from their krone and punt have appreciated. Over the course of last week the movement of currencies from their central European currency unit rates tended to widen, with the three strongest currencies increasing the lead over their weaker brethren.

OTHER MARKETS

Mar. 50	£	â		£ Note Rates
Argentina Peso	2379-2399	1158-1157	Austria	
Australia Dollar Brazil Cruzeiro	1.8475-1.8525 47.82-48.22		Belgium	5031-614 10.58-10.68
Finland Markke	8.31-8.325	3.9770-3.9790	France	8.73-8.83
Hong Kone Dollar	74.718-76.582 10.30-10.35	36.15.37.05 4.9870-4.9920		\$.?8-3.88 1,695-1,736
Iran Rial	146.20-156.20	72.75	Japan	485-435
Kuwait Dinar KD Luxembourg Fre.	• 0.563-0.573 61.15	29.58-29.60	Netherlands	4.07-4.17 10.41-10.51
Malaysia Dollar New Zealand Dir.	4,55-4.57	2,2030-2,2135	Portugal	94-100
Saudi Arab. Riyal	6.87-6.97	3.3600-3.3610	Switzerland	139.5-144,5 3.40-3.50
Singapore Dollar.	4.51-4.58	2.1815-2.1825	United States	2.0500-2.060
SUIT, ATTICAL TOUTE	1.8-1.79	U.042U.U.047U	Yugoslavia	89.5.43

Rate given for Argentina is free rate.

THE POUND SPOT AND FORWARD

THE DOLLAR SPOT AND FORWARD

f UK, Ireland and Canada are quoted in US currency. Forward premiums and discounts apply to the U.S. dollar and not to the individual currency.

EXCHANGE CROSS RATES

Dutch Guild'r Italian Lira Canada Dollar Belgian Fran PoundSterling U.S. Pollar Deutschem'k Japan'se Yen FranchFranc Swim Franc Pound Starling 3.863 1.870 8.880 4.298 2.399 1.161 1735. **859 8** 61.15 29.60 0.484 0.259 0.535 4.766 1. 8.910 0.621 5.533 15.83 141.1 French Franc 10 Swiss Franc 1.126 **0.286** 3.327 Q.590 488.2 193.5 B.SM 1954. 425.4 10. 2.535 0.685 17.45 0,240 0.576 0.496 1.191 0.927 104. I 249.9 416.6 1000. 2.132 5 118 0.041 1.010 2.401 0.576 1 388 35.24 Canadian Bollar Belgian Franc 186 0.417 1.685 0.861 5.379 180.7 709 S 1.737 723.4 2837. 1 3.932

LONDON MONEY RATES

Mar. 30 1979	Sterling Certificate of deposit	Interbank	Local Authority deposits	Local Auth. negotiable bonds	Finance House Deposits		Discount market deposit	Treasury		Fifte Trade Bills 6
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wo months		12 12 4	_	124-124	124	-	12	115 7	1212	12::
hree months,	1218-12	12, 12,	124-124	1158-12	125	12èg	1212	112	12	1212
x months	1159 11, 4	1112-1153	1134-117g	105g-111g	12	(T		}	1074	12
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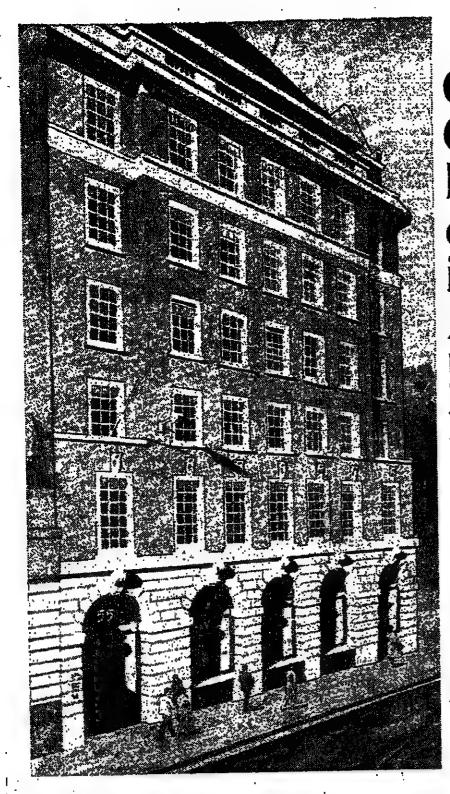
bill rates in table are buying rates for prime paper. Buying rates for four-month bink bills 111; per cent; four-month Approximate selling rates for one-month Treasury bills 11½ per cent, two-month 11½ per cent, three months 11½ per cent. Approximate selling rate for one-month bank bills 12½ per cent, two-month 12½ per cent and three-month 11½ per cent, one-month trade bills 13½ per cent; two-month 12½ per cent, and three-month 12½ per cent.

Finance Houses Bese Rates (published by the Frience Houses Apockation) 13 per cent from April 1, 1973. Clearing Bank Deposit Rates for small sums at seven days notice 10.5 per cent. Clearing Bank Rates for lending 13 per cent.

Treasury Bills: Average tender rates of discount 11,4337 per cent.

25.50 100. MOREY RATES **NEW YORK** 11 5-11.75 GERMANY

FRANCE IAPAN



Protected Eagles No.1

Extinct in the United Kingdom by

Fourth largest eagle in the world,

Main habitats Scandinavia and Asia

1916. Re-introduced in 1977.

with a wing span of 7-8 feet.

Like all eagles it is a

protected bird.

White Tailed Sea Eagle

On April 2nd Canadian Imperial Bank of Commerce is moving to 55 Bishopsgate London E.C.2.

The move of our City Branch from 2 Lombard St. and the **European Operations Office** from 42 Moorgate to new premises in Bishopsgate is yet another indication of the continuing growth of Canadian Imperial Bank of Commerce as a major force in world banking and finance.



CANADIAN IMPERIAL BANK OF COMMERCE

55 Bishopsgate, London EC2N 3NN. Telephone 01-628 9858. 🛪 888229. Cable CANIMP London E.C. 2.

The week in **Parliament**

Bill. Completion of Remaining Stages of the Arbitration Bil (Lords), the Crown Agents Bill and of the Consents to Prosecu-tions Bill and proceedings on Pneumoconiosis (Workers' Compensation) Bill. LORDS: Industry Bill (Money) third reading. Nurses. Midwives and Health Visitors Bill, third reading. Banking Bill. remaining stages. Estate Agents Bill, remaining stages. Motions to approve the White Fish subsidy (Deep Sea Vessels) (Specified Ports) Scheme, 1979. Air Navigation (Noise Certification) Order 1979. Carriage by Air Acts (Application of Provisions) (Second Amendment) Order Credit Unions second reading.

SELECT COMMITTEE: Expenditure, Arts and Home Office Sub Committee. Subject: Women and the Penal System.

TOMORROW COMMONS: Proceedings on the

COMMONS: Banking Bill, consideration of Lords amend-Bill (Lords), the International Monetary Fund Bill (Lords) and the Prosecution of Offences Bill

Royal Assent will be given to all outstanding Acts and Parliament will then he pro-requed prior to dissolution on Saturday, April 7.

TODAY COMMONS: Proceedings on the Representation of the People

Finance Bill and on the Con-solidated Fund (Appropriation) solidated rung (Appropriation)
Bill. Completion of remaining
stages of the Weights and
Measures Bill, the Leasehold
Reform Bill and Carriage by Air
and Road Bill (Lords). WEDNESDAY

ments, Nurses, Midwives and Health Visitors Bill, Lords amendments, Estate Agents Bill, Lords amendments, Proceedings on the Ancient Monuments Bill (Lords) and on (Lords) and on three consolidation measures, the Exchange Equalisation Account

LORDS: Motion to approve Inmarsat (Immunities and Privileges) Order 1979. Consolidated Fund (Appropriation) Bill, Finance Bill, Weights and Measures Bill and Leasehold Reform Bill, all stages. Crown Agents Bill, Consents to Prosecutions Bill and the Pneumoconiosis Etc. (Workers' Compensation) Bill, remaining

BUSINESSMAN'S DIARY

UK TRADE FAIRS AND Title
London Fashion Exhibition (01-385 1200)
(until April 5)
The Scottish Hotel, Catering and Licensed Trade
Exhibition (031 229 6412) (until April 6)
International Engineering Inspection and Quality
Control Exhibition (01-300 3200)

Control Exhibition (01-300 3200)
(until April 6)
Leatherwear International (01-385 1200)
Computermarket 79 (01-935 4996)
OCCA Technical Exhibition (01-908 1086)
Tipping Vehicle Exhibition (061-834 7648)
Birmingham Motor Show (0802 51202)
Ideal Homes Exhibition (031 225 9657)
National Food Services (01-686 7181)

TRADE FAIRS AND

Travel and Holiday Fair 79 (01-486 1951)
(until April 8)
Europain 79 (01-439 3964) (until April 9)
Toys and Games Trade Show—BELJOUETS
(until April 8)
International Coffee Exhibition International Coffee Exhibition MODEXPO—International Ladies' Fashion Fair International Trade Fair International Book Fair Apr. 5—8 Apr. 8—10 Apr. 14—23 Apr. 19—25 Apr. 20—29 Apr. 21—29 International Household Fair

Bloomsbury Centre Htl. WCI Alexandra Palace Exbn. Centre, Harrogate Bingley Hall Assembly Rooms, Edinburgh Grosvenor House, W1

EXHIBITIONS

Kelvin Hall; Glasgow

Exbn. Centre, Birmingham

Olympia

Olympia

Brussels Zurich Jerusalem Amsterdan Braga

BUSINESS AND MANAGEMENT

	Wanagement Course	
urrent	Management Centre Enrope: Management Course (until Apr. 6)	Lo
urrent	IPM: Industrial Relations Law. International June 7)	U
grent	BTSC: Senior Management Course (W
pr. 2	AMR International: interviewing Same	R
pr. 2	ESC: Important Developments in (057 282 2711)	H
pr. 2—4	ASM: Managing and Controlling X	R
pr. 2—4	MSS Computer and Business Consultately, Inductive	W
pr. 2—6	Frank Jefkins: Export Fry Francisco and Control of the Control of	C
Apř. 3	Executant Conferences: Justifying and Selecting	H
Apr. 3-6	Energy Utilisation and Comservation	R
Apr. 3	(01-637 2400) NTIS: Information Services (0420 84300) Kwaliteitsdienst-KDI: Effective Material Utilisation	A H
\pr. 3		\mathbf{R}
Apr.: 3-6		
Apr. 4	tion: Health and Safety in the Spring	121
	(0742 760771) Graham and Trotman: Saudi Arabia and Egypt: Graham and Trotman: Saudi Arabia and Egypt:	
Apr. 4—5	Current and rutture business opposite	C
Apr. 4-6	BHRA: Institution of Chemical Engineers: MIXING	U
Apr. 4-6	ISBA: World Industrial Advertising Congress	A
7, 1	1 T-oursemon Conference (U1*626 0004)	P
Apr. 4-5 Apr. 5-5	Assoc. of Unstore Diving Contractors. Sansar Assoc. Of Unstore Diving Contractors.	τ
Apr. 6	Oyez-IBC: Damages for Personal injury and Death	R
Apr. 9	The 48 Group: Trends in British Trace with China	G
Apr. 10	(0772 51831) AGB: Trade Union Recognition—the options	L
Apr. 10	(01-353 3651) The Institution of Mechanical Engineers: Power	B
41	from Coal (01-222 7899) LCCI: Conference on Libya (01-248 4444)	C
Apr. 11	The Henley Centre for Forecasting: The Budget (01-236 3011)	C
Apr. 11	BAMA: Achieving production emclency (0700	K
Apr. 14-21	CDA/John Ridoway Training Course (01-720 7711)	A
Apr. 18—19	MPI/AMEDA: Microwave—a Cooking Revolution (0582 411001)	L
Apr. 18		C
4. 40 00	THEOLOGIC MANAGEMENT INVESTIGATION OF THE	

London
Upper Woburn Place, WC1
Woking, Surrey
Royal Garden Hotel, W8
Hilton Hotel, W1
RAC Club, SW1
Worthing
Connaught Rooms, WC2
Hotel Russell, WC2
Royal Lancaster Hotel, W2 American Embassy Hilton Hotel, Rotterdam Regent's Park, W1

Enrope Lodge Htl., W. Brom

lafe Royal, W1 Iniversity of York Amsterdam Plaza Hotel, Frankfurt

University of Aberdeen Royal Lancaster Hotel, W2 Guild Hail, Preston ondon Press Centre

Birdcage Walk, SW1 Cannon Street, EC4 Carlton Tower Hotel, SW1 Rensington Close Hotel, W8

London, W8 Charing Cross Hotel, WC Eurotech Management Development Service: Be a More Effective and Persuasive Communicator

Cafe Royal, W1 Cafe Royal, W1

Worthing

Piccadilly Hotel, Manchester

IPM: Current and Future Developments in Pay Policy and Industrial Relations Practice (0865 735422) Kennington, Oxford

"Notwithstanding reduced UK vehicle production, the Group's technical strength and expertise will still further increase our worldwide sales."

(0252 313066)
AGB: Essentials of Employment Law (01-353 3651)
FT Conference: South East Asian Banking and
Finance (01-236 4382)
MSS Computer and Business Consultancy: Manu-

facturing/Production Control Concepts
(Worthing 34755)
Malayrian Investment Centre: Assisting UK Busi-

nessmen in the Expansion of Trade and Invest-ment Opportunities in Malaysia (01-493 0816)

Sir Bernard Scott, Chairman.

Turnover for the six months was £510m. an increase of £48m. The Lucas share of Associated Companies' (all overseas) turnover was a further £61m giving a total turnover of £571m which is £64m higher than the previous year Sales in Europe increased by 21% and those in the US by 43%. Direct exports from the UK were up by 24% to a record level of £86m.

Profits before tax for the six months at £24m were disappointing and this was due to the poor performance of the UK market. During the whole of the first half of the financial year there has been a series of disruptions to production and sales caused by the wide-ranging problems both within the industry and elsewhere. Thus the UK production of

vehicles showed a decline of no less than

18% on the previous year. An additional

factor that reduced profit was our considerable spending on new projects not yet on stream but which will make an important contribution in the future. Outside the UK our companies in Europe and other overseas areas performed well and increased their profits by 28%.

PROSPECTS

The outcome will depend materially on the industrial climate prevailing in the UK for the remainder of the year Steady and sustained production is essential to restore the profitability of our domestic business to a satisfactory level. However, notwithstanding reduced UK vehicle production the Group's technical strength and expertise will still further increase our worldwide sales. Our prospects are good and market penetration continues to increase.

1979 Interim Results at a glance:

:	Half-year to 31.1.79	Haif-year to 311.78	Year to 31.7.78	
	£ million	£ million	£ million	
Sales to outside	510.14	462.39	971.17	
Surplus on trading	26-87	30.34	77.91	
Profit before taxation	24.09	27.61	73.05	
Earnings per ordinary share	18.89р	22.99p	ē9.89p	
Dividend per ordinary share	2.57p	. 2.33p	9.18p	



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CURRENT INTERNATIONAL

INTERNATIONAL BONDS

BY FRANCIS GHILES

The Canadian dollar comeback

ANOTHER startling week for such a "quasi-tap" issue was the prices of Sterling bonds and: arranged was in September of dollar bonds convertible into 1977, by Orion Bank, one of the British equities, also saw the re-emergence of the primary market in fixed interest Euro- Kontrollbank. dollar bonds and—after a long absence—of new issues in Canadian dollars. Meanwhile conditions in the hard currency market which ruled the roost last year, continued to

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the market was re-opened after being closed for 18 months. All week pointed to a warm recepwilon for the two Canadian dollar issues:2 issues for Canada's Export Development Corporation and Hudson's Bay Co. which were announced on Tuesday. The Hudson's Bay issue was increased from an initial C\$40m to C\$50m later in the week. A third issue, for Province of Quebec, was announced on Friday evening.

The total size of the EDC bond is C\$100m of which C\$50m has been issued in the traditional way while a further nrice of 1003; Many felt higher C850m remains for issue yields were available for three between now and the end of the pears in other types of paper year at the discretion of the

the individual bonds are issued, with changes in market condiwith changes in market condiwith changes in market condiwield premium offered by money
tions being taken into account market instruments may be
by altering the issue price.

diverting some funds back into
The only other occasion when bonds. This consideration The only other occasion when bonds.

INTERNATIONAL LOANS

joint lead managers in the EDC issue, for Oesterreichishe

The reoponing of this sector was made possible by the improvement in the Canadian currency since the beginning of March, It then stood at C\$0.83 aginst the U.S. dellar but had eteriorate. moved up to C\$0.86 by last The Canadian dollar sector of Friday. This imprevement is reinforced for the investor by the higher yield he can get on indications at the end of last the new Canadian dollar issues than on recent U.S. dollar

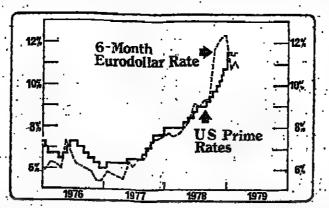
> Electricite de France reopened the dollar sector of the straight Eurobond market with a \$75m offering. A \$40m straight issue for Comalco was then announced later in the week. The reception for EDF was fair not least on account of the rarity of the name, but some retail investors objected to the fact the bonds could be redeemed after three years at a

Turnover of seasoned dollar bonds was said by dealers to be The coupon and maturity will average Against the background be the same regardless of when of a firm dollar and easing interest gates the declining

appears to outweigh the more calendar for the four weeks per cent. The big three Swiss bearish ones, such as the U.S. starting March 26, which was banks decided to freeze the rate of inflation and further set at a maximum of DM 770m, increases in the price of oil.

The announcement of oil Yen, D-Mark and Swiss franc convertible which carries . a sectors. Prices of D-Mark bonds coupon of 5 per cent, the

was too high. The deteriorating state of this price increases and the threat market was confirmed by the of further rises in inflation and terms for RENFE and particuinterest rates again troubled the larly by those for the Fujitsu



Hungary is to horrow \$300m by way of a syndicated loan paying 1 to 2 above U.S. prime rate rather than LIBOR. The chart shows why this could be more attractive to U.S. banks. The loan is being mana; d by Manufacturers Hanover Group.

fell by an average of a point highest for a DM denominated across the board in very thin Japanese convertible for a long trading after the announcement time. that both the discount and

a full point in Germany. Some German bankers also

In the Swiss franc sector, too. Lombard rates would so up by the Japanese are having to pay

more on convertibles: Rhythm Watch paid 3; per cent instead felt that the new D-Mark issue of the recently prevailing 3; scribed.

issue of subsequent Japanese The tad state of the Swiss

bond market forced Banque Keyser Ullmann en Suisse to announce a coupon of 5 per cent on the SwFr 40m 10-year public issue it is arranging for Lonrho. The level of the coupon was at least & of a point above what was expected, a week before.

The deterioration of the Yen sector, was reflected in the decision by the Japanese authorities to curtail Yen bond issues planned for the next two months. This forced both Den mark and Austria to scale down their plans for Yen bond issues next month.

In the sterling sector gains of up to 32 points were registered on the week. The recent issue for FFI closed at 103 on Friday, The excitement on the British stock market coupled with the through clearly in the prices of UK dollar convertibles. The Thorn issue closed at the end of the week at 122, up from 103 at the beginning of March. On Thursday morning this security put on 10 points in as many.

the FFr 125m bond for Solvay was priced at par and a half. It was four times over-sub-

BY MARY CAMPBELL U.S. BONDS

U.S. DOLLARS TTexas Int. Airlines Smith Barney Hambros, Skand. Enskilda 7.75 Eur. Banking Co. 160 100 Crédit Lyonnais ' †Banco di Roma Salomon Bros. Société Générale IEDF (g'ted France) D-MARKS Credit National (g'teed France) WestLB WestLB 1989 IRENFE (g'teed Spain) S. African Oil Fund 1983 BHF-Bank Deutsche Ban ₹Euiitsu SWISS FRANCS **!Pfandbriefstelle** 7990 Landes-Hypothbk, Crédit Suisse 100 ERhythm Watch Bank Julius Baer Crédit Suisse Best Denki Swiss Volksban SAoki Construction 100. 103: ‡**§Okumura Solvay et Cie 4 Sangue de l'Union · 1987 9**1**. Européenne LUXEMBOURG FRANCS City of Oslo 3 CANADIAN DOLLARS Morgan Stanley & others BNP, Caisse des Depots Hudson's Bay Co. 16 iProv. of Quebec YEN-**Denmark** 15bn UNITS OF ACCOUNT Kredietbank NV SOFTE (greed STET) 140

Congress's failure so far to raise

double digit annual rate.

BY STEWART FLEMING

An impressive digest from the BIS

THANKS to the Bank for inter-homework national Settlements (BIS), it position is now at last possible to make. The meansible estimates of individual macful to country's debts without several years' study of statistical niceties first.

Statistics Compiled by Interna-tional Organisations on Countries' External Indebted-

ing, however small its research, pational credit assessment since approximate publication dates department, can have any the BIS started to break down are, and how out of date it is excuse for falling to do its banks cross-frontier lending by when published.

homework on any national debt maturity in December 1976. The mannel could also be

riseful to companies involved in providing suppliers credits— companies which have tended to be the main losers so far in On Friday, the Ris published the critical cases of default like document called Manual on Turkey which have already the critical cases of default like come out into the open.

is now published on countries' foreign debts, it comes from so many different sources at so many different times of year that it has been very difficult

The new study, which runs to Finally, it is likely to con- 110 pages, does three things, solidate the position even of First it lists and describes all Countries' External Indebted solidate the postuon even of risk it lists and describes all ness." As may be guessed from experts in the field, One combine the title it is not the sort of mentator on country debt said sources of information both on tome which every loss syndica. Last week that it would fill in cross-frontier flows of unds and tion officer needs to carry round a number of gaps in his under also on the outstanding stock the world in his pocket.

But from now on no bank Arguably it is the most important the standard of the standard in the results of countries external debt. It is involved in international lens portant contribution to international from where what the

Second, it explains the scope For while a great deal of data and limitations of the information muhlished on countries tion. Third, it gives indications of how all this information can be roughly put together to compile an estimate of overall

It falls far short of actual aggregation of the figures for individual countries. But the publication is part of general thrust to improve the quality of data available on country debt.

An actual aggregation of figures might be the next stage. The BIS notes that "the interorganisations national cerned are now examining the extent to which these data could be aggregated in a form suitable for publication, using mation flows.

ONTRADE INDEX AND YIELD

8.65

available for their own purposes but which is not publicly avail-But such a development would not happen overnight, even if the necessary agree ments for it were to be secured.

sation for Economic Co-operation and Development (OECD) and the International Monetary Fund have all helped to prepare the new publication.

Imposing controls on banks' international lending has hitherto been cousidered virtually impossible. The authorities have therefore concentrated on helping lenders to help themselves by improving the inforFacing up to indices

tion in the trucking industry, target of about 10 per cent for the uncertaintles posed by Federal funds appeared unchanged. the Federal debt limit, and the publication later this week of the Producer Price Index for continued failure of Congress

March which is widely expected to approve an increase in the to show that inflationary pres-U.S. Government's debt ceiling sures continue to run' at a from \$798bn to \$830bn and the consequent shortage of stock.

Thorughout most of last week The lack of action in Congress the prices of long-term bonds on this issue threatens to pose were firm and in spite of a serious problem for the decline on Friday prices in both the corporate and Treasury authorities and has already disrupted the financial markets. sectors ended the week a shade Unless the House of Represenhigher with gains of around one tatives acts today to approve an quarter of a point in longer increase, the Administration

will, according to official fore-THE NEW YORK bond markets dated government issues, will, according to official fore-are facing some difficult tests. Interest rates in the short casts, be unable to meet its over the next few, days as term meney markets also obligations. investors try to assess the declined slightly, although the These include payment of implications of the confronta- the Federal Reserve Board's some 87bn of social security

some \$7bn of social security, cheques. Last Treasury stopped selling savings bonds and in efforts to increase The performance of the mar-the available cash, called on kets was widely ascribed to the banks to pay in any tax receipts they were holding. In order to stay within its debts celling, the Treasury has also postponed an estimated \$10bn of securities.

On the assumption that Congress approves the increase in the debt ceiling early this week, the markets are likely to be faced with the task of absorbing a flood of new Treasury sales and it was this prospect which sparked the decline in prices on

2nd April 1979

FT INTERNATIONAL BOND SERVICE

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### DELITSCHE MANK STRAIGHTE American Ex. Ipt. E. 87 Argentina 67, 88 Austrials 6, 88 Austrials 6, 88 Austrials 6, 80	3
Nippen Vales 71 87 200 991 991 -01 -01 7.5	2
100 Street 54 85 100 Street 65 0 5.1	2 -
Nippon Tel. & J. 57, 87 100 001 042 -01 -11 83	9
Nordic Inv. Bk, 6-85 180 97, 982 0 -0, 8.6	0
Military Komma 61-80 - 150 - 941 95 - 01 - 01 6.6	7.
Occidental 64 90 180 ozi. ozinizi. 7 9	2
DK8 62 88 100 994 984 -04 -04 6.5	ė I
OKB 6.87 40 574 385 05 455 62 Patroleo Brazil 7 88 100 974 385 05 7.3	9
Petroleo Brazil 7 88 100 977, 987, -07, 0 7.3	1 .
Fiech 51: 83	Z .
Statol 54, 89 150 973 981 -01 -01 6.7	g
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Acess 6 88 40 1031 1031 -03 +01 4.7 Amer. Exp. Int 31 93 40 971 971 0 -01 3.7	
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Canada 35 39 30 186 365 -05 -05 40 Chasa Managona 4 93 70 107 107 +05 +05 3.8 Council of Europa 45 100 100 100 100 -05 -05 4.2	i l
Bankamerica 37, 93 80 1924 984 -04 -04 3.9	5 T
Council of Europa 47 100 1001 1002 -003 -02 4.3 88 -02 -02 4.3 80 1584 882 -02 -02 4.7 80 1584 882 -02 -02 4.7 100 156 864 -02 4.7 100 156 864 -02 4.7 100 156 864 -02 4.7 100 156 864 -02 4.8 100 156 864	8 . 1
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i	TOTAL COMPANSAGE CO.		- J D1		Chai	ige on		
	YEN STRAIGHTS Asian Dev. Beck 54 88 Australia: 5.5 83	lasu: . 75	i 87	Offer 887	0.7	0.7 manual	7.51	
4	Australia: 5.8 83	. 30) : M	1-a 175-i		-03	6.81	
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ŀ	Finjand 6.8 88	. 10	ă.	· . 84	Ö	0	7.85	
		· .			Char	ige en		
	OTHER STRAIGHTS	lasvi	rd Bio	1 Offer	day	viewsk:	Yield	
	Nordio 1, 8k: 9 84 SDR Auto Cote B, 7 83 EUA Komm. Inst. 75 93 EUA Panama EL BS EUA	20	196	1, 994 1, 921	Ô	+85	9.18 7.93	
	Komm. Inct. 75 83 EUA	18 15	. 97	75. AST.		+0%	7.70	
7.	Panama F. 83 FUA	, 20	. 94	95		- 74.	- 0 GE	
• :	SDR France 7-83 EUA Algemens Sk. 64, 63 Fr	22	94	. 641	_02	+04	7.85 7.40	
٠.	CEE Mavico 74 RS FI	- #	- 96	14. 997		TOTAL	8.75	٠
	티호 72, 95 원	78	94	J. 1894.		2	8.23	
		70 100	100	15 954 12 1014		-04 -04 -04	7.97 7.89	
÷ .	Norway 8's 84 Fl.	150	i, iga	19. 96 1.	Ď	-04	9.30	
	Norway Pa 84 FFF	200	98	3. 1001		0	9.66 8.31	
	PSA Peugeat 94 87 FFr	176	99	J 997.	. ÷0%	Ō	9,81	
:	Total Oil 93 87 Ffr	160	-	o. 9911	0	-04	9.72	
	Total Oil 9's 87 Ffr Unilever 10 85 FFr CFCA 9's 89 C	100	- 7	S. 1917).	-01	-0. +2.	9.74	
	Citicorp 10 99 £	20	i pr	7. 913.	. 0	+24,	11.27 10.78	
	Finance for Ind. 13 91 £	. F.			0	+3%	10.78	
	Einene 101, 27'6'	70	92	105 ¹	+01	+14	11.47	
A.	BAT 8 88 LUXFY	250		7. SEC.	·	7114	8.33	
	BAT 8-88 LURFY	250 250	96	98	-04 0	-94	8.19	
	Euratom 8 87 LuxFr	500	100	101	u	+0%	7.91	
	Finland I. F. 8 88 Lucifr	250 250		3, 1983.		+0%	8.31 8.34	
	Nomes Km. 8:86 LuxFr	500	98	1. 99°.	-04	-04 -05	8.19	
	Renault 74 88 Luxer Solvey Fin. 8 85 Luxer	500 500	97	1, 98 ³ ,	8	+02	8.09 7.86	
	Solvey run. 5 82 Luxri Swedish Bk. 8 88 Luxri	500	. 100	101	ŏ	+0%	7.95	
٠.	and the same of the same			'n				
	FLOATING RATE	need	Did : 4	97 3	dta (.cpn	C.yld	
		Ο ¹ ,	9612	97 3	1/7	11.44	11.82 12.58	
	DEC Fin Co. Mass MR	114	937	99 1 98's 1	2/7	1.31	11.56	
	Bco, El Salvador M8 83 Bco, Nac. Arght. M8 83		100	1001, 2	177	-	12.22	
	Banco Nac. Argnt. 7 86 Banco Urquijo 6 86	014 614	974	98's 12 100's 2' 98's 2' 98's 2'	1/9	N2,	11,72 11,73 10,71 12,17	
Ī	Bank of Tokyo M512 93.	02	97%	981 1	3/4	Or,	10.71	
	Bank of Tokyo M5 93. Banque Worms M5 25	æ.	983	98 ³ , 11 98 ⁷ , 1 96 ⁷ ,	/6 :	17	12.17 12.29	
	Bq. E. d'Alg. M8.375 B4 Bq. Ext. d'Alg. M7.5 B5 Bq. Indo at Sumz M5.2 Bq. I. Af. Occ. M6.5 83	0%	957	96's 96's 98', 2 98', 1 96', 2 97's	<u> 7</u> 5	23	13.35	
	Bq. Indo at Suaz M52	nı.	997	2M 2	77	2 2.4	12.0\$ 12.62	
•	Bo, I. Af. Occ. M6.5 83 BNP 512 91	01	98 97%	984 2	2/2	11%	11.62	
:		O.	973	97	/8	11%	11.65 11.96	
	CCCE Mb_29 88 Ch. Mant O/S M54 93 Chicorp O/S Fin. 6 94 Credit National M54 88 Gotabanken M6 88	012 012	363	997. 2	//8	11.06	11.10	
	Credit National M5 88	01. 01.	953	98 , 11	77	12 31	12.48 12.50	
	Gotabanken A76 88	03°	1994	97-5 98 ² , 27 99 ² , 8 98 ² , 1 98 ² , 1 100 ³ , 1 98 ³ , 1 99 ³ , 9	7,3 /6	Z.31 2.35	12.35	
	Ind. Bk. Japan M5- 85 Lieblianska M7.75 85	4				2.94	13.24	
-2	LICE Japan M54.85 Midland Intl. M54.85 Nipo. Crdt. Bk. M54.8 85 OKB M54.88	02a	994	584: 85 593: 9 594: 20 1004: 20 1004: 18 595: 18 595: 20 571: 10	1/5 1/7	2.08	12.12 12.36	
٠.	Nino -Crds. Bk - M5.5 85	G.	993	1004 2	/6	2.81	12.81	
-	OKB M54 88	034	997,	1001, 18	/4 1	0,56 2.19	10.55 12, <i>2</i> 8	1
	Offshore Mining 86 Petro Mexicano 74 84	0% 0%	987.	991, 74	7	2.08	12.17	
	Drivrovina Banka, MS 85	107.	95	96 - 22	76 1	3 44	13.98	•
	Crondord (DEL MSLS SU	014	7/.2	31.1	~~	1.55 0.05	11,86 10,31	1
	Sundsvallsboke, M6 85 Thailand 7 64	Ora Gra∙	97% 197%	97°, 4	/3 1	1.31	17.60	
						hg.		
			Cnv. price	Bid C			Tea	i
	BONDS Asics 54 93	9/78	628	914	924	+0°s	6.18	j
	Baker Int. Fin. 5 2 93	1/79	34 1	1119 1	Δ), .	+ 1 ³ 2 =	4.72	i
	Boots 64 93	2/79	575	106° 1	95	9	16.63	,
•:	Coca-Cola Botting 64	4/79	9	89%	30%	0	16.71	
	Coca-Cola Bottling 54 Handa Motor 52.89 Ho-Yokado 54.93 Novo Industri 7.89 Toxas Int. Air. 72.93 Thorn Int. Fin. 7.83 Typo Int. Fin. 7.83 Asshi Optical 32. DM1	5/79	532	915	92%	.a.	6.B1]
٠.	Ito-Yokado 5% %	6/78	259	1145 1 89	en.	-01	1.21 7.50	j
•	Towas Int Air. 7- 93	4/79	14.5	901 ₂	912 •	-01-	13.46	5
•	Thorn Int. Fin. 7 881	1/78	3.67	116% 1	175	-87, -	- 5.92	ì
	Tyco Int. Fin. 87, 88	9/78	21 1	962.	U67. GGL.	.ov	0.01	į
	Asani Upucai 37 DMT.	1/78	841.	901, 1163, 1 101, 1 957, 937,	941,	ŭ.	8.22	
.]	Asahi Optical 3½ DM1 Casio Cp. 3½ B5 DM1 Izumiya 3- 86 DM	0/78		9112	924 -	0.	12.59	1
. ,	Juaco 31, 85 DM	1/19	1754 1750	883° 813° 813°	971.	-02	19.35 61.34	1
ļ	Kansai Elec, 4 84 DM (Konjekiroku 31, 85 DM (₩ <i>[3</i> 1/79	612					1
:	Marudai Food 34 DM	2/79	1033	925 ₄ 90	91 -	-01. 2 -07	28.45	1
1	Murata M. 3- 85 DM1	1/78	854	98%1 87°2	. TO	-0/8 -	1.34 8.73	i
	Jauriya 3~ 50 DM	2/ /6 R/7R	732	95%	965 -	-ŭž -	0,34	1
: 1	Minnon Yan. 35 85 DM	1/79	281	337.	947-,	Q	8.85	(
ن. ن	Nissan Diest. 37, 85 DM 1 Olymp. Opt. 37, 85 DM 1 Ricoh 37, 86 DM	2/79	477	914	32 - ·	-012	9.53 0.67	1
. !	Olymp. Opt. 35 85 DM 2	2/79	617	100° 1	967	o 1	9.74	3
. !	Ticuli 3'7 00 Dal manda (C		205	031	942			,

Change on	(1/2) 62.53 [30/1]
STRAIGHTS issued Bid Offer day week Yield n. Dev. Bank 5% 85 15 87%, 88%, 0 -0% 7.51 rails; 5.5 83 30 85%, 85%, 0 -0% 8.81	Low '79 94.40 (11/1) 88.67 (28/2)
ralia: 5.5 83 30 95', 95', 0 -0', 6.81	EURDBOND TURNOVER
n Dev. Sank: 54, 85, 16 874, 854, 0 - 05, 7.51 rails: 5.5 83	
ind 8.8 88 10 83 84 0 0 7.85	(nominer and at sul)
Change as	U.S. S bonds Cadel Euroclear
	Lest week 464.5 1,168.3
FR STRAUGHTS (1884) 316 Open day week Yield (16 1, 38; 8 54 SDR* 20 38*, 854, 0 49, 8, 19 (Cote B, 7 63 EUA 16 814, 82; 0 6 7.93 (Mar. 74, 93 EUA 18 814, 82; 0 49, 7.70 Mar. Pt. RS EUA 22 94, 95; 0 49, 7.85 (Prance 7 83 EUA 22 94, 85; 0 49, 7.85 (Mar. 75 84, 93, 0 9, 7.40 Mexico 7, 83 F1 75 884, 89; 0 0 8.16 (Mar. 85) 22, 85 (Mar. 85) 24, 26 (Mar. 85) 25, 864, 40; 40; 40; 40; 40; 40; 40; 40; 40; 40;	Previous week 612.7 1,440.7
m. ingt. 75 83 EUA 15 97 88 0 +0 7.70	Other bonds
ma FL 83 EUA 20 942 957 0 -DE 8.85	Last week 808.0 403.0
Cote B, 7 83 EUA 18 814, 824, 0 0 7.93	Previous week IRS 464.4
Mexico 74, 83 F1 75 884, 997, 0 0 8.16	
74, 85 F1	
yay 81, 84 Fl 100 100 101 0 -01 7.89	 No information available—
Quitains \$4, 88 FFT 150 98's 99's 0 -0's 9.30	previous day's price.
94 88 PT 200 894 1004 D D 8.31	Fronta and a bring.
Paugeot 91 87 FFr 176 99 997 +04 0 9.81	†Only one market maker
(0) 93 87 FFr 150 FF2 965 0 -02 8.72	supplied a price.
94 89 C 20 -81, 91, +04 +24 11.21	
orp 10 99 £ 20 B0°c 81°s 0 +2°, 11 27	STRAIGHT BONDS: The yield
93, 98 £	is the yield to redemption of the
18 101, 87 E 10 927, 931, +01, +17, 11.47	mid-price; the amount issued is
8 88 LUXEY	in millions of currency units ex-
7 88 Luxir 250 961 977 0 -01 8.19	cept for Yen bonds where it is in billions. Change on week=
TO 100 100 100 100 100 7 101	Change over price a week earlier.
nd I. F. 8 88 LuxFr 250 97% 98% 0 +0% 8.31	
rsy 74 83 Luxfr 250 973 993 0 0 8.34 es Km. 8 86 Luxfr 500 983 993 - 04 - 04 8.19	FLOATING RATE NOTES: Denominated in dollars unless
ult 74, 88 LuxFr 500 974, 983, 0 +04, 8.09	otherwise indicated. M=Mini-
tom 8 87 Luxfr 250 97% 58% 0 +0% 8.31 o +0% 8.32 o +0% 8.33 o +0% 8.34 o +0% 8.33 o +0% 8.34 o +0% 8.33 o +0% 8.34 o +0%	mum coupon. C.dte=Date next
	coupon becomes effective. Spread
TING RATE Spread Bld Offer C die C.con C.yld	= Margin above six-month offered
S Spiese No. 18 11.44 11.82 Fin. Co. M5.5 89 04 989 99 127 12.4 12.56	rate for U.S. dollars, C.cpn=The
Fin. Co. M5.5 89 04 832 99 12/7 12.4 12.58 FI Salvedor M8 83 14 974 984 12/4 11.31 11.58	current coupon. C.yld=The
Nac. Arent. MS 83 04 100 1001, 21/7 12% 12.22	current yield.
Nac. Argnt. 7 83 01 977 962 22/9 174 11.72 0 Urguijo 6 88 64 972 982 21/9 114 11.73	CONVERTIBLE BONDS: De-
o Urquijo 6 88 61 972 984 21/9 1114 11.73	nominated in dollars unless
ue Worms M57, 85 04, 987, 987, 15/6 12 12.17	otherwise indicated. Chg. day =
Ind. Benk M6.5 83 0 ¹ , 96 ² , 97 31/7 11.44 11.82 Fin. Co. M5.5 89 0 ² , 98 ² , 99 12/7 12.4 12.58 Fis. Salvedor, M8 83 0 ² , 99 12/7 12.4 12.58 Nac. Arght. M8 83 0 ² , 10 ² , 100 ² , 100 ² , 100 ² , 110 ² , 11.31 11.56 Nac. Arght. M8 83 0 ² , 97 ² , 98 ² , 21/9 11 ² , 11.72 o Urquijo 6 86 0 ² , 97 ² , 98 ² , 21/9 11 ² , 11.72 o Urquijo 6 86 0 ² , 97 ² , 98 ² , 21/9 11 ² , 11.72 o Urquijo 6 86 0 ² , 97 ² , 98 ² , 21/9 11 ² , 11.72 o Urquijo 6 86 0 ² , 97 ² , 98 ² , 18/4 10 ² , 10.71 us Worms M5 ² , 85 0 ² , 98 ² , 98 ² , 15/6 12 12.17 d'Alg. M8.375 84 0 ² , 96 ² , 96 ² , 97 ² , 98 11 ² , 12.29 ixt. d'Alg. M7.5 85 0 ² , 95 ² , 95 ² , 2/5 12 ² , 13.35 ndo at Sizez M5 ² , 0 ² , 99 ² , 99 ² , 99 ² , 27/5 12 ² , 13.35 Af. Occ. M6.5 83 0 ² , 88 98 ² , 12/7 12.4 13.62	Change on day. Cnv. date=First
indo at Sunz M5- D4 990 PM 25/7 12 12.05	date for conversion into shares.
. Af. Occ. M6.5 83 01, 28 981, 12/7 12.4 11.62	Cnv. price=Nominal amount of
US WORMS MS-1 85 04 85 95 97 97 17 12.29 Let d'Alg. MS-375 85 04 95 95 97 27 124 13.35 Let d'Alg. M7-5 85 04 95 95 97 27 124 13.35 Af. Occ. M6-5 83 04 93 98 12/7 12.4 11.62 Sept. MS-2 58 8	bond per share expressed in
Man: O/S M5- 93 0- 97- 98- 27/7 11.73 11.96 pp O/S En. 6 94 04. 98- 99- 89- 8/6 11.06 11.10	currency of share at conversion
orp D/S Fin. 6 94 04, 994, 997, 897, 8/8 11.06 11.10 t National M57, 88 07, 983, 987, 11/7 12.31 12.48	rate fixed at issue. Prem=Per-
t National M51, 86 04, 981, 981, 11/7 12.31 12.48 banken M6 88 07, 981, 982, 15/5 12.31 12.90 banken M6 88 07, 981, 1991, 1001, 1/6 12.35 12.35	centage premium of the current
banken AMS 88 P1 984 982 15/5 12.31 12.90 Bk, Japan M51 85 04 1994 1004 1/6 12.35 12.36 lanska M7.75 85 1 973 984 18/7 12.94 13.24	effective price of acquiring shares via the bond over the most
anska M7.75 85 1 873 981 18/7 12.94 13.24	recent price of the shares.
Japan M51, 85 04, 99-, 59-, 9/5 12,06 12,12 and intl. M51, 95 04, 587, 98-, 20/7 12-, 12.36	
Crdt. Bk - M5.5 85 01, 993, 1007, 22/6 12.81 12.81	The list shows the 200 latest
M57, 88	international bonds for which an
Maxicano 74 84 04 987 991, 24/7 12.08 12.17	adequate secondary market exists.
dna Banka M8 86 07 95 96 22/6 13 44 13.95	The prices over the past week
Series Series 1 Series	were supplied by: Bondtrade;
svalisbnka, Alfo 85 Ga 974 974 974 15/3 11.31 11.60	Kredietbank NV; Credit Commer-
	cial de France; Credit Lyonnais;
ne deta nrice Bill Uller day Preul	E. F. Hutton Services SARL;
S data price 810 Uner day Fred 53, 93	Commerzbank AG; Deutsche Bank AG; Westdeutsche Landes-
51, 93	
63, 93 9/78 622 91% 92% +0% 5.18 1 Int Fin. 57 93. 1/79 34 119 120% +1% 4.72 -6% 93	bank Girozentrale; Banque Inter-
	nationale Luxembourg; Krediet Bank Luxembourg; Algemene
Motor 51 89 5/79 532 914 924 0 6.81	
bkado 54, 93 6/78 1339 1144 1154 +04 1.21	Bank Nederland NV; Pierson,
Industri 7 89 4/79 259 89 90 -04 7.90 Int. Air. 72 93 4/79 14.5 9012 9112 -017 13.46	Heldring and Pierson; Credit
Int. AIG. 7 98 11/78 3 67 1165 1673 -84 -5.92	Suisse/Swiss Credit Bank; Union
Int. Fin. 87-88 9/78 21 1101 1022 0 17.08 Optical 32 DM 12/78 588 951 961 - 01 - 0.01	Bank of Switzerland; Akroyd and
Optical 32 DM12/78 588 952 962 -05 -0.07	Smithers; Bankers Trust Inter-
Co. 37-85 DM1178 801 931 941 0 8.22 va 31-86 DM10/78 989 912 921 - 01 12.59	national; Banque Française de
ye 3 - 85 DM 10/78 989 91 2 92 - 0 12.59	Credit International; Citicorp
Flor 1 94 110 4/79 1350 912 922 -02 19.36	International Bank; Daiwa
hiroku 32 85 DM 1/79 612 923 933 0 14.43 tal Feed 33 DM 2/79 1033 90 91 -04 28.45	Europe NV: Deltec Trading Com-
27 72 78 134 12 178 854 98% 100 -07 -1.24	pany; Dillon Read Overseas
	Corporation; EBC; First Chicago:
n Shinpan 34 DM 8/78 738 954 964 -02 -0.34	Goldman Sachs International
n Yan. 32 85 DM 1/79 281 832 942 0 8.85	Corporation; Hambres Bank: IBJ
0- 1 95 PM 2/70 787 1007 1017 +01 0.67	International; Kidder Peabody
0. NO UMU//2 01/. 00% 00% 00%	International: Merrill Lynch:
Electric 3 DM_11 7R 295 934_944 +14 7.95	Mergan Stanley International;
Co. 31 88 DM 2/79 487 561 574 TU 10.48	Nesbitt Thomson; Salomon
y Elec. 32 DM11/78 623 923 533 + 462 21.35 Flec. 32 87 DM 4/79 476 923 923 - 02 3.01	Brothers International; Samuel
IN CO. 4 28 DM 4/79 493 20% 21% U 2:17	Montagu and Co.; Scandinavian
nurd. 3-2 86 DM11/78 711 86- 870- 30.74	Bank: Strauss Turnbull and Co.:

Bank; Strauss Turnbull and Co.: Sumitomo Finance International; S. G. Warburg and Co.; Wood The Financial Times Ltd., 1879. Reproduction in whole or in part in any form not permitted without written consent. Data supplied by Inter-Bond Services (a subsidiary of dataSTREAM International). Closing prices on March 30

J. Vontobel & Co.

Warburg Parihas Becker

Those securities having been sold, this announcement appears as a matter of record only

Yamaichi International (Nederland) N.V.

UNITED OVERSEAS BANK LIMITED

U.S. \$25,000,000

Floating Rate Notes Due 1989

Credit Suisse First Boston Limited

S. G. Warburg & Co. Ltd. Banque Nationale de Paris Chase Manhattan Limited Daiwa Europe N.V. The Development Bank of Singapore Limited European Banking Company Limited Jardine Fleming & Company Limited Salomon Brothers International Kidder, Peabody International Limited United Chase Merchant Bankers Limited Westdeutsche Landesbank Girozentrale

Algemene Bank Nederland N.V.	AMAS S.A.	American Express Bank	Amsterdam-Rotterdam Bank N.V.
Banca Commerciale Italiana	The Bank of East Asia,	Bank Julius Beer Interna	rtional Benk Leu luternational Ltd.
Bank Mees & Hope NV T	he Benk of Tokyo (Holland) N	.V. Bankers Trust Interna	tional Banque Bruxelles Lambert S.A.
Benque Française du Commerce Es	rtérieur Benque Gé	nérale du Luxembourg S.A.	Banque Internationale à Luxembourd S.A.
Banque de Paris et des Pays-Bes	Banque de Paris et d	les Poys-Bes (Suisse) S.A.	Banque Populaire Suisse S.A. Luxembourg
Banque de l'Union Européenne	Banque Worms	Baring Brothers & Co.,	Bayerische Hypotheken- und Wechsel-Bank
Bayerische Landesbank Grozentra	le Beverische Verein		Berliner Handels- und Frankfurter Bank
Blyth Eastman Dillon & Co.	Coisse des Dépôts et Consigna	tions Chemical Bank Intern	ctional Christiania Bank og Kreditkassa
Citicorp International Bank	Clarideo Bank		ontinental Illinois County Bank
Crédit Agricole (C.N.C.A.)	Crédit Commercial de Fr		
Greditanstalt-Bankverein	Credito Italiano Dai	i-Ichi Kangyo Bank Nederland N.V.	DBS-Daiwa Securities International
Den norske Creditbank			k-Warburg Euromobiliare S.p.A.
First Chicago Asia Merchant Bank			
Girozentrale und Bank der Österrei		ldman Sachs International Corp.	Groupement des Banquiers Privés Genevois
	e Landeshank—Girozentrale—	Hill Samuel & Co.	'IBJ International Indosucz Asia
Istituto Bancario San Paolo di Tori	no - Kansallis-Osake-F		
Kulm Loeb Lehman Brothers Asia	. Lazard Brothers		et Cie Lloyds Bank International
Manufacturers Hanover Mc	Lend, Young, Weir Internations	Merrill Lynch Internation	al & Co. Mitsubishi Bank (Europe) S.A.
Samuel Montagu & Co.	Morgan Greniell & Co.	Morgan Guaranty and Partn	ners Morgan Stanley International
Nederlandsche Middenstandshank ?	N.V. Nesbitt. Thomson	The Nikko Securities Co., (E.	urope) Ltd. Nippon European Bank S.A.
Nomura Europe N.V. Nordic l		nese Banking Corporation Orion	n Pacific Pierson, Heldring & Pierson N.V.
Postipankki Privatbanken	N. M. Rothschild & Sons		Bank (Underwriters) Scandinavian Bank

J. Henry Schroder Wage & Co. Schröder, Münchmeyer, Hengst & Co. Singapore-Japan Merchant Bank Schroders & Chartered Singapore Nomura Merchant Banking Smith Barney, Harris Upham & Co. Société Générale de Banque S.A. Société Bancaire Barclays (Suisse) S.A. Société Générale Société Générale Alsacienne de Banque Société Privée de Gestion Financière et Foncière

Strauss, Turnbull & Co. Sumitomo Finance International Son Hung Kai International Svenska Handelsbanken Swiss Bank Corporation (Overseas) The Taiyo Robe Bank (Luxembourg) S.A. Union Bank of Finland Ltd. Trade Development Bank,

Wood Gundy

N.Y.S.E. ALL COMMON

Rises and Falts

Mar. 39 Mer. 28 Mar. 25

Questions begged by compulsory liability

the undertaking involved.

Insurers have now given an

porary employees' wages in whatever declaration insurers

require.
During their final school year

BY OUR INSURANCE CORRESPONDENT

WE ARE now in the eighth The Manpower Services Comyear of compulsory employers' mission is concerned with two insurance and so kinds of scheme for young unsmoothly have the compulsory employed. laws been applied by the In the first, the Youth Oppor-insurance market that the only tunities Programme, is to pro-visible evidence of change has vide some youngsters with a been the displays on office and practical introduction to work-factory noticeboards of current ing life. The youngster does not statutory certificates of legally become an employee of

It is trite to say that the In the second, the Special Tememployer must have cover to ensure employees receive com-pensation for any injury or ill-in areas of unemployment, the ness caused in the course of worker becomes a legal their work as the result of the employee. employers' negligence. This provokes the questions: "Who is an employee?" and "which employees have to be protected by law?"

The 1969 Act defines an employee as "an individual who has entered into or works under a "an individual who has entered into or works" and "an individual who has entered into or works under a "an individual who has entered into or works" and "an individual who has entered into or works" and "an individual who has entered into or works" and "an individual who has entered into or works" and "an individual who has entered into or works" and "an individual who has entered into or works" and "an individual who has entered into or works" and "an individual who has entered into or works" and "an individual who has entered into or works" and "an individual who has entered into or works" and "an individual who has entered into or works" and "an individual who has entered into or works" and "an individual who has entered into or works" and "an individual who has entered into or entered into or works under a contract of service or apprenticeship with an employer whether by way of manual labour, clerical work or otherlabour, clerical work or other-wise, whether such contract is expressed or implied, oral or in writing." It then goes on to exempt certain employees and writing." It then goes on to exempt certain employees and certain employers.

Vital words

The vital words are "under a some pupils undertake a few contract of service or appren-ticeship, but almost all insurers whether their chosen employ-provide cover in respect of ment is suitable. Usually local provide cover in respect of people outside the statutory definition: for example, people this arrangement. Insurers are prepared to treat these pupils as employees, for the purposes of tract with some other employer, or perhaps self-employed people doing work normally performed under a contract of service or apprenticeship with the policyholder.

The number of people who might be called "quasiemployees" and whose rights to compensation for work acci-

compensation for work accidents may be insured for convenience under employers' lia-

bility policies, is increasing. Last Friday a Financial Times report described how GEC at Manchester is running, in conjunction with the Manpower Services Commission, fortnightly employment induction courses. each for up to a dozen young unemployed people. While much of the time is taken up with classroom exercises, lec-tures and visits round the factive tasks under supervision.

General manager for **National Benzole**

Mr. John M. Sperring has been made director and general manager of NATIONAL BEN-man of Greengarden Investments and Mr. D. A. Llewellyn has been appointed managing director of that concern. Mr. Llewellyn is a former chief executive of EPC.

**

Mr. Noel Blows has been appointed an associate director of and appointed an associate director of and appointed an associate director of appointed an associate director of and general group. Mr. R. M. Spiro is chairman of Greengarden Investments and Mr. D. A. Llewellyn has been appointed an associate director of appointed an appointed appoi

a company, in 1957.

Mr. P. C. Williams has been appointed chairman and continues as group managing director of G. E. WALLIS AND SONS.

Mr. R. C. Stevens, is divisional managing director of the western division based at Newport, Gwent. Mr. A. H. Baird has been appointed a director, and Mr. A. R. Deacon a director of County Bank, has joined the Board as a non-executive director.

Mr. Noel Blows has been appointed an associate director of HARLOW MEYER AND CO., foreign exchange brokers, a subsidiary of Mills and Allen International.

Mr. A. E. Hepper has been appointed a director of SHEEP-BRIDGE ENGINEERING. He is also a director of Cape Industries.

Mr. Richard Harbad has been appointed an associate director of MARLOW MEYER AND CO., foreign exchange brokers, a subsidiary of Mills and Allen International.

**Mr. Noel Blows has been appointed an associate director of MARLOW MEYER AND CO., foreign exchange brokers, a subsidiary of Mills and Allen International.

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**Mr. A. E. Hepper has been appointed a director of SHEEP-BRIDGE ENGINEERING. He is also a director of Cape Industries. An undertaking

Mr. Bernard G. Lewis, chief executive of Kumpulan Guthrie SDN BHD and Mr. John A. Logan, president of Guthrie North America Inc and of Ajax Magnethermic Corporation, have been appointed directors of the GUTHRIE CORPORATION.

Mr. Robert D. Wade has become group managing director of LEEDS AND DISTRICT DYERS AND FINISHERS.

Mr. Adrian Rapazzini has joined P. S. REFSON AND CO to establish and manage the bank's emporate finance department. He was previously a partner of Stoy, Hayward and Co. specialising in financial investiga-

Public Works Loan Board rates

Years	Quote by EIPt		repeid at maturitys	Non-quate by EIPt	ioans At	A* repaid at maturitys
(data	Dy DF		HIMTORY CONT.	by Mrt		111-21149
Up to 5	11#	11}	113	127	12]	12}
Over 5, up to 10	111	12	121	123	121	13 .
Over 10, up to 15	12}	121	121	1,2	13	134
Over 15, up to 25	12	127	124	131	131	13
Over 25	121	12[127	131	13]	13
4 57	1				4	h

chairman of Henry Sykes and is also a director of Cape Industries. : industries. : 118.58 115.51 114.65 114.49 112.71 115.43 118.71 115.45 114.75 (20.5)

appointed a director of HAYES MILL with responsibility for controlling internal sales. Mr. Robert Stimpson has become managing director of MATHER-SON-SELIG. Both companies are members of the Harrison Group.

Mr. Peter C. Palmieri has been elected executive vice-president and manager of IRVING TRUST COMPANY's international bank-ing group, New York. He assumes the duties of Mr. Ernst Schneider, who has returned to Switzerland to become a general manager of Credit Suisse in Zurich, Mr. David M. Blace, has been elected a senior vice-president and assumes Mr. Palmieri's duties as division manager.

PROPERT AND A SECTION OF

TEL AVIV			
Company Banking, Insurance	Prices April 1 1979	ÔΠ	ings the sek
and Finance Bank Leurn: le Israel IDB Bankholding Bank Häpoalim Br Umon Bk. of Israel Br. Umited Mizarhi Bank Hassneh Insurance Br. General Mort. Sank Br. "Talahot" Isri. Mt. Bk.	332 400 672 370 216 382 385 350	++11+11+	4.0 6.0 9.0 4.0 9.0 4.0
Land Davelopment Africa Israel Inv. IC10 Israel Land Devot. Br. Property and Building	940 221 316	1+1	5.0 1.0 4.0
Public Utility Israel Electric Cpn	287	-	9.0
Investment Companies Sank Liumi Invest "Clai" jarael Invest. Discount Invest Communial and Industrial	341 457 290		10.0 26.0 1.0
Alliance Tire & Rubber Elco Br. Argemon Textile Br "Ats "Textile "B". Amer. Israeli Ppr. Mills	1,415 232 502 185 748 390	++	10.0
Teve Reg.	311 378	7	4.0 3.0

Indices

NEW YORK -DOW JOKES

				. Mar i		,	197	8-79	Since Compil'to		
	Mar. 30	Mar- 29	Mar. 28	Mar. Mar. 27 26		23	High	Low	High	Low	
				1				' -	i	41 00 .	
• industr'is,	\$62.T8	\$86,77	866.25	B71.35	854.82	859.75	307,74 (3:51	; 742,12 (32/2)	(11/1/12)	(2/1/32)	
H'me B'nds	84.59	84.62	84.68	84.89	84.47	84,25	90,86	' 84,09 /35,1/706	! - !	_	
Transport.	225.17	224.19	223.80	223,70	219.91	219,76	261,48	189,51	275.88	(2/7/32)	
Utilitles	184.19	104,63	104.77	104.60	104.47	104,70 i	110,98 (3/1)	97.75	165,82 (20/4/69)	10.58	
Trading vol	50.140	28,520	39,920	: 35,040 	28, 44T	평,820		_	-	· -	
	970 K	B low S	R58.11								

Day's high 870.58 low	Mar. 25 Mar. 16 Mar. 9 Year ago (approx					
	Mar. 25	Mar. 16	Mar. 9	Year ago (approx		
Ind. div. yield %	8.76	5.80	5.87	6.16		
STANDARD AND POORS						

(Composite 101.59 102.8)	102.12 102.48	191.04 161.	SD 106.98 86.5	(11/1/3) (30/6/32) 8 : [25,85] 4,40 : (11/1/6) (1/6/32
	Mar. 28	Mar. 21	Mar- 14 Y	ear ago (approx).
Ind. div. yield 🖫	4.99	5.08	6.11	5.46
Ind. PiE Ratio	8,66	8,58	8.44	8,48
and Mald	8 00	9 08	9.02	8.15

N.	324	,	•								: 197	78-79							
5							Mar. M 30 8	9 .	28 :	27	nigii			isques T Rises Falls		6 ! 7	45 61	757 637	1,907 724 786
	ar.	Mar.	1978-7 High ;			ma'ilqmo	57.1357,	,84 ¢	57.35 5 i	7.53	60,58 (11/5)	48.3 (6/3		Unchap New His New Lo	hs		91 	483 60 6	397 68 4
							MONTE	PAT						1			1978	-79	
E 81	54.82		307,74 ; 74 (2;9) ; (1051,79 (11/1/73)		MUDIA.	511.1			Mar. 30	Mar. 29	28	r. Mar. 27	.'	_ <u></u> _		ū	w
•	_	84,25	90,86 1 8 (4/1/78) (15	4.09 :/1/79)	-	_		Cor	ustrial Nbined		249.02		245.	87 250.9 81 249.71	249,1	17 (201)	arren i	170.62	(16/2) (60/1)
			(918) (9	178)	(7/2/69) 163,82	(2/1/32)	TORONT	9 0	Compo	site	1,460. 4	1467.17	1485	5.6 14 6 5.6	1467.1	7 (29)	3(78)	998.2	(30/1)
1		エロスクロ あ,820	(3/1) (2 -	0;12) —	(20)4/691	(22/4/42)	JOHANI	ES	BURG			502 7	286	5 265.3 7 508.	290	.7 (7/2	<i>1</i> 791 (186,0 194,9	(20/4) (12/3)
	Ma	ri 16	l Mar 6	Va		(approx)			Mar 30	Pro		9 1978 th Lin	- 9 *			30	ViQUS	High	
<u>,</u>			<u>'</u>			5.16	Australia	(4)	589.88	595.	51 597.4 (19/5)	68 411. 779 (1)		Spain	(d), 10	38.54 i	108,22	111.8 17:33)	50,68 5 (12/1/79
_		.80	5.87	<u> </u>		0-10	Belgium	(t)	106.23	10\$.	64 106.3 - <i>(</i> 50/3	23 90.	43 6)	Sweden	· 1	, i		408.00	325.74
							Denmark	C (***	95.08	94.	56 36.9 (14/	5 68.	03	Switzeri	d(<i>f</i>)	675.N	319.6	325. (14/2)	7 281.6 (26/9)
١	Mar.	Mar	1978	79	SinceC'	mpi I't'n	France	(††)	(u)	(U) i 85. (4/1	D) (3)	2)	50; Sta	ndards	an	d Po	ors—1	0: and
i	25		High	Low	High	Low	Germany	(##)	788.70	786.	(19)	10) (17)	51 ·	Toronto based o	n 197	5).	† Exc	luding	bonds:
19	112.7	7, 116.4	(12/9)	95.52 (6/8)	154.64	5,53 (30 <i>(</i> 6/32)	Holland	(1)	77.9	78.	4 : 95. (11)	S) (21)	3)	‡ 400 lni iltilities,	40 Fi	nance	e and	20 Tr	ANSODAT.
18	191.0	4 197.5	30 106.58	85,50	125,85 (11/1/6)	4,48	Hong Ko	ng es			(4/	8) (13)	4)	9 Sydne 31/12/63 11 Paris	. ••	Coper	rhager	ı, SE	ian SE 1/1/73
		' -	, (· · · ·			Italy	(t1)			TS S2.2	9) (10)	1)	Dec. 19	53. 59 Hai	§§ Ar ng S	nsterd eng i	am ir 3ank ∶	100001H 37/7/84
	Ma		Mar. 14	Yes			Тарал				88 452. (51/1	<i>118 (41)</i>	7	ij Banca a Tokyo	Con	nmerc	iale	itzlian:	1972
j		68	6.11	_	5.40		Singapor	16)	671.65	ā70.	28 4143 (8)	60 252 9) (9)	1)	Times 29/12/78	1966. . e Ste	e Cle ockhol	osedi. Im ind	ợMa İustrial	drid SE 1/1/50
<u>_i</u>	8,5		8.44	_!	8,48		Indices	BI	nd be	58 5	lates (all ba	se	í Swisa able.	Bank	Corp	oratio	1. U	Unavaii
-	9,	08	9.03	i	8, 19	5	values 10	M) e:	xcept 1	4126	الم الم	erkine/ir	_						

EUROPE

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TERDAM			BRUSSELS/LUXEMBOURG	SPAIN .	TOKYO ¶
Mar. 20	Price + or Div.	Yld.	Mar. 50 Price + or Frs. Yld.	Merch 30 Per cent Asland	Mar. 30 Prices + or Div. Yel.
1 (FL20)	122.5 - 0.8 s/3 29.4 - 0.8	5.4 4.9 5.1 8.9 	Arbed 2,380	Banco Central 341	Asahi Glass
s (F1.10)	24.5 - 0.2 18 39.1 + 0.8 - 150.5 - 0.6 26.4 150 - 0.1 18.5 122.6 - 0.1 18.5 137.3 - 0.5 18.76 252.5 - 1.0 30	8.3	Vielle Mintagnei 1,795 +16 COPENHAGEN 4 Mar. 30 Frios + or Elly, Yld. 2 2 2	Teletonica	Nissan Motors 574 —5 16 1.1 Pioneer 2,340 —10 46 1.1 Sanyo Elect 520 +10 12 1.9 Sekisui Prefab 502 —8 50 1.3 Shisaldo 1,130 +20 20 0.9 Sony 1,800 —20 40 1.1
Pac Hids ver (F1,20), g Res r Stevin Utr. Hypok	125.5 +0.5 \$0.30 127.9 -0.8 42.8 46.5 -0.2 \$0.26 85.8 -1.6 10 405.2 -0.2 35	0.6 6.7 1.0	Andelsbanken 150 +134 112 7.5 Danske Eank 181 +14 12 9.9 East Asiatic Oc. 182 13 9.1 Finansbanken 18034 13 8.1 Bryggerier 1824 +1 12 4.2	Price + or Div. Yid Ray 30 Kroner - Kr. 5 AGAAB Kr. 40), 198 -1 5 5.0	Takeds Chem 556 +5 15 1.4 TDK 1.850 50 0.8 Tellin 135 -2 10 5.7 Tokyo Marine 474 +1 11 1.2 Tokyo Earyo 475 -34 2 1.2
NA Mr. 30	Price +or Div.	शत. %	For Papir 104 - 4 - 12 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15	ASEA(Kr.50) 69.5m — 0.5 5 7.1 Atlas Cop. Kr25, 105 +1 7 6.7 Billerud	Toray
tangtalt tata	545 10 265 +5 9s	2.9 3.2. 6.4	Novolnd stries 5 2061g 2 8 5.9 Olis abrik	Sofore	Source Nikko Securities, Tokyo

tory. on several days these young people are allocated positive tasks under supervision.	quota Ioans A. † Equal instalments half-yearly annuity (fixed equal ha principal and interest). § With half-ye	of-yearly payments to include	Course Park James James Bld Tel	Semperit	Provinsbank	Elea lux 5 (K730 111 + 3 5.49 5.5) Ericanom 5 (K730 136 + 1 5 4.6) Exactte (Free) 155 + 4 8 2.6 Fagoreta 125 4 5.5 Granges (Free) 55.5 - 0.6 -
WALL STREE	T				GERMANY • Price + or blv. Yld. Mer. 50 Price + or blv. 2 2 3 4 5 5 6 5 7 5 1.2 5 3	Mandaisbankan 2556s 16.5 5.1 187
1978-79	641s 451s Corning Glass B67s 4214 4214 Crans Co 227s 351s Crans Co 227s 350 251s Crans Co 227s 357 228s Crown Zellerb's 344s 251s 11:s Curties Wright 16 8154 354 Dart Industries 40 551 14:s 551 15:s Destons 17:s 551 15:s Eastman Kodak. 54 15:s Destons 17:s 551 15:s EmeryAirFreight 25:s 551 15:s Emery Air 25:s 551 15:s Emery 25:s	1978-79	18	1978-79	BAMF	SWITZERLAND P Mar. 30
205a 134a Asaroo 201a 444 454a 451a Astron 201a 444 451a 451a	2536 1654 First Chicago 1836 255 2516 1519 Fits Nath Boston 265 2518 1519 Fintkote 3519 2518 2518 2519 Fiorida Power 3076 4119 2519 2519 Ford Motor 2519 2514 17 Foremost Mok 1819 Foremos	324	Selic	14% 7 Cons. Bathurst	MILAN Mer. 30 Price + or Div. Yid. Lire 2 ANIC. 399.75 + 0.78 - 720 + 7750 + 751 - 720 + 7750 + 72	Mar. 50 ACMIL (25 cents)

0.25 1 0.75 1 7.1 6.7	Mitsubish Hery 184 — 2 13 1.5 Mitsubish Corp 425 + 5 13 1.5 Mitsubish Corp 425 + 5 13 1.5 Mitsubish Corp 425 + 5 13 1.5 Mitsubish Corp 487	
5.2 5.2 5.5 5.5 4.5 4.5 4.5 4.5	Source Nikko Securities, Tokyo HONG KONG	
5.1 5.1 2.8	Hong Kong 8 Mar. 29 Mar. 85	
2.4 6.9 6.3 7.0	Amaigamated Rubber. 5.10 9.75† Cheung Kong. 11.10 11.50 Ohina Light & Power. 81.10 92.14 Cosmopolitien Prop. 11.59 1.60 Cross Harbour Tunnel. 15.70 9.00 E. Asia Navigation. 4.60 4.60	

Numerical services:	9.70	2.701
Cheung Kong	11.10.	11.50
Chine Light & Power	21.10	53 -70 ·
Cosmopolitien Prop	:1.69	1.60
Cross Harbour Tunne!	18.70	9,00
E. Asia Navigation	4.60	4.60
Hang Seng Bank	153.00	165.00
Hong Kong Electric		6.00
Hg. Kg. Kowloon Wharf		35.00
Hong Kong Land		7.95
Hg. Kg. Shanghai Bank		10.60
Hg. Kg. Shanphal Hotel		20.20
Hg. Kg. Telephone	. == ==	28.70
Hutchinson Whampos		4.20
Jardine Matheson	12.30	12.50
		6.00ml
Jardine Secs		8.00
New World Developmet	8.15	5.00
Rubber Trust		6.60
Sime Darby		8.20
Swire Pacific A	11.45	
Wheelook Mardan A	3.135	
Wheelock Maritims A		5,461
Winsor Industries	. X-50	2.50
ad Ex-dividend. † Bu		Seller.
		Seitet.
Şusp. Suspei	nged,	

<u> </u>				_
Mar. 30	Price	+0	Oruz Div.	Y
Acesita Bancodo Brazil Banco Itau PN	1.53	0.02 + 0.12	0.12	0.0
Belgo Mi'elra OP Lojas Amer O.P. Petrobras PP	2.22 1.44	+0.05	0,20 0,13	0.0
Souza Gruz OP Unip PE		-0.14 +0.10	0,21	0.

BRAZIL

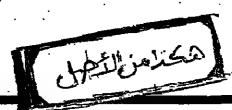
Bancodo Brazil. Banco itau PN. Belgo Mi'elra OP. Lejas Amer O.P. Petrobras PP. Pirelli OP. Souza Gruz OP. Unip PE. ValezioDoce PP.	1.58 1.20 2.22 1.44 1.58 1.90	+0.05 +0.05 -0.14 +0.10	0.08 0.20 0.15 0.16 0.21	0.2 0.0 0.0 0.1 0.1
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	Tumover Cr. 90.800m. Volume Source: Rio de Jeneiro	55.757m. SE.
F or		· : .
_	JOHANNESBURG	
May 1 .	MINES	
14-41-1		
4,05	March 30 Rivind Anglo American Cpn. 7.55	+0.20
0.01	Charter Consolidated . ±4.50	TU.20
	East Driefontein 14.80	-0.05
4.01	Elsburg , 1,93	-0.07
50.0	Harmony 7.50	-0.20
50.0	Kinrosa	-0.06
0.07	Kloof 12.70	
******	Rustonburg Platinum. 3.03	-0.07
0.02	St. Helana 19.00	-0.50
0.02	Southwest 11.30	~0.20
	Gold Fields SA 32.00	-2.00
0.65	Union Corporation 7.25	+0.10
*****	Do Saers Deferred 5.40 Blyvooruitzicht	
0.06	East Rend Pty 5.15	•
·:	Free State Geduld 30.00	~0.50
0.01	President Brand 18.70	+0.20
0.87	President Steyn 14,75	. •
8 .10	Stillonzein	-0.27
0.01	Welkom 15,55	
0.02	West Driefontein , \$45.50	
0.02	Western Holdings 37.50	
	Western Deep 15,80	
0.02	INDUSTRIALS	
8.05	AECI	+0.10
12.0	Anglo-Amer Industrial †14.00	~0.10
0.01	Barlow Rand 5.80	
	Currie Finance 0,95	
0.05	De Beers Industrial 114.75	
	Ever Ready SA 12.87	٠.
===	Fed. Volksbeleggings 2.30	7-0.05
0.04 0.02	LTA 2.50	
0.05	McCarthy Rodway 0.75	
10.0	Nedbank 3.45	+0.6
	Premier Milling 5.80	+0.15
0.82	Pretoris Cement 4.40	-0.10
0.02	Protee Holdings 1.73	+0.03
·····-	Rand Mines Properties 2.70	
0.82	Retco	
0.01 0.12	Sage Holdings 1 60	
0.12	SAPPI 3.00	+0.05

Tiger Oats and N. Mig. 11.85

Financial Rand U.S.\$0.76} (Discount of 351%)

Premium. Belgian dividends are atte 2.791 —39 39 3.1 and/or sorio issue, c Por share if France. v Gross div. 7 elter scrip end/or rights issue. After local taxes, m including United div. 1 Nom. 4 Shere split. 3 Div. and 314 +5 15.19 7.1 payment. I indicated div. a Unofficial trading. v Minority ponding. 4 Asked. † Bid. 5 Treded. † Seller. 2 Assume



West Berlin

Although it is Germany's largest industrial city, West Berlin remains viable only with the considerable financial support it receives from the Federal Republic. But its problems have often been vastly exaggerated and the city has managed to adapt well to living behind the border of Communist East Germany.

Battling against the odds

By Jonathan Carr

WEST BERLIN is slive and well—and remains one of the democratic world's most rewarding cities although it lies more than 100 miles behind the border of Communist East

Some used to think that West. Berlin would be swallowed up by the Communist world if not through direct, military action then by other external pres-sures which would make life there impossible. When this proved to be morroof it became fashionable to suggest that the city, drained of vitality simply fade away. It must be real hinterland sad no com-stressed therefore that reports, muters from the com-of West Berlin's of West Berlin's impending have been valily

Of course. West Beriff as big problems many but by no means all platched in other major Europezit cities. These problems were for a long time largely ignored by non-Berliners

ONG

freedom," the city of the airlift of the Wall—the place where the Cold War was most but particularly acute there.

It is a tribute to the success it the Four-power Berlin Agreement, and of the subsequent accords between East and West Germany, that this fascinating but unsettling political role is less often talked about now. As the excitement of the initial thrust of the "Ostpolitik" at the start of the 1970s began to dwindle, West Berlin became a more normal city and problems which had long existed, swam into public view.

True, West Berlin remains the largest industrial city of Germany (or as one commentator with an interesting perspective out it the most significant indus-itial centre between Paris and Moscow) But it is not viable without big financial support from the Federal Republic, Raw materials mustibe brought in from the West at great cost and the city has to provide its own power supplies without the backing of a larger grid at times of neak demand.

real hinterland sas no com-muters from the countryside. Those who leave the city go right away and are usually lost to Berlin for good. The popu-lation, which has been declin-ing now stands at about 2m and is likely to drop turther. This is partly because for years more people have been leaving than have been moving in although

exceeds the birth rate, not a

Some mirrored those occurring in West Germanyfor example in the building industry, a boom sector where some over-reached themselves and went bust when the economic downturn came. Others were the familiar signs of a political leadership longsome said too long-in office.

But the democratic checks and balances have operated well enough. The Social Democrats (SPD) who have always held Government office in West Berlin, had to go into coalition with the Liberal Free Democrats (FDP) in 1975. The SPD then stabilised its position under a new and effective coverning and the SPD-FDP, alliance was confirmed in elections last month, despite a strong opposition challenge.

Finally-neither a problem. nor a scandal but a mystery: well-informed Germans tend to he stuck for an answer when asked to define West Berlin's status. The city is, after all, a land (state) of the federation according to German law-but supreme authority remains in the hands of the four wartime Allied powers.

The city is incorporated-in the economic and legal system of the Federal Republic and close to 30,000 federal employees work

not governed by it (although ties problem in West Berlin alone between the two can be maintained and developed). Little Berlin has had its scandals wonder that American Presi-

because of the city's inter- a near balance now seems to agreement points out, West comments indicating that they German writer Hans Magnus national political importance, have been gained. But it is also Berlin is not a constituent part will defend West Berlin to their Enzemberger caught the mood Berlin was the "outpost of because the death rate markedly of the Federal Republic and is last breath, but that they are not well enough when writing about of entity they are supporting. Much of this may seem dis-

last breath, but that they are not wholly clear precisely what sort wonder that American Presi-dents have been known to make orientating. The modern

Berlin — East and West



well enough when writing about the German states: "We belong," he said, "to two parts of a whole that does not exist. Two parts, each of which denies being a part, and each presents
steelf in the name of the
whole. . . . This condition is
regarded as at once temporary and definitive—the provisional is inviolable."

optimism about the future be justified? Some reasons are political (and described in more detail elsewhere in this survey). The two German states are gradually improving contacts and relations between them. This process has benefited Berlin already and surely will continue to do so.

But it is also worth standing back and taking a look at the historical perspective. Even the city's division is not as modern a phenomenon as many might imagine. Berlin was born from two trading towns on either side of the River Spree which viewed each other with distrust even after their leaders had agreed on a common town hall at the start of the 14th century. Each was under geographical and economic pressure to cooperate with the other-and with time this is what happened.

United Berlin had many crises. Today the population decline is a matter for concern. But it is worth recalling the shocking setback of the 30 years war in the 17th century when the town, by then an important trading centre, was made by warring parties to pay tribute to

each but was finally sacked. The population of about 10,000 dropped by almost half, yet decades later Berlin was more important than before and by the time it became the capital of the German empire in 1871 nearly 1m people lived there. The First World War, hyper-

inflation, strikes and street violence gave way to the Golden Twenties" when Berlin confirmed its industrial and cultural pre-eminence. Then came the era of Nazi power, another war, destruction and a 1.5m drop in population to about 2.8m. The recital of such figures hardly helps comprehension of the disaster. It is much more striking to stand nearly 400 feet up on Berlin's "Trummerberg" mountain and recall that it was built from war debris.

Vitality

Immense vitality, the ability to make a comeback against all odds, is the common thread which runs through the city's history. Despite the departure of many former Berliners for the West and the arrival not only of other Germans but many foreigners too, there remains a Berlin "flair" — recognisable - recognisable even to those who first learned of the city's character from

books written decades earlier. Part of that quickness of mind and sardonic sense of humour. which many West Germans find uncomfortable about Berliners, may even be of French origin. Thousands of Huguenots who fled their homes after the revocation of the Edict of Nantes in 1685, settled in Berlin. Can that be why Berlin the old days.

cabarets, political and otherwise, evades those in Hamburg and Munich (unless, of course, they are run by transplanted Berliners?) Might it not also help explain why Berliners can give a peculiarly clear-sighted, logical critique of the West German way of life even as they benefit from its successes—a richly Ironic situation which Berliners

will wryly acknowledge. Despite several rival claims Berlin is still the only German city with the "feel" of a capital about it. This is not simply because of the reminders of the past—the Reichstag (where parliamentary groups still meet from time to time), the Braudenburg Gate, Charlottenburg Palace and so on. Nor is it a question just of injections of outside money. It has much to do with preservation of tradition —even though so many factors have told against this.

There could be examples, culturally and otherwise. One will suffice: a concert in February given by the peer-less Berlin Philharmonic Orchestra, its members, playing as though their lives depended on it, in their concert hall hard by the wall dividing the Eastern and Western sectors.

The programme noted that exactly 50 years before, the same orchestra had been playing under Furtwaengler with Kreisler as soloist. It is hard to believe that those who per-formed then would have had anything but praise for their successors. They would surely have found it gratifyingly like

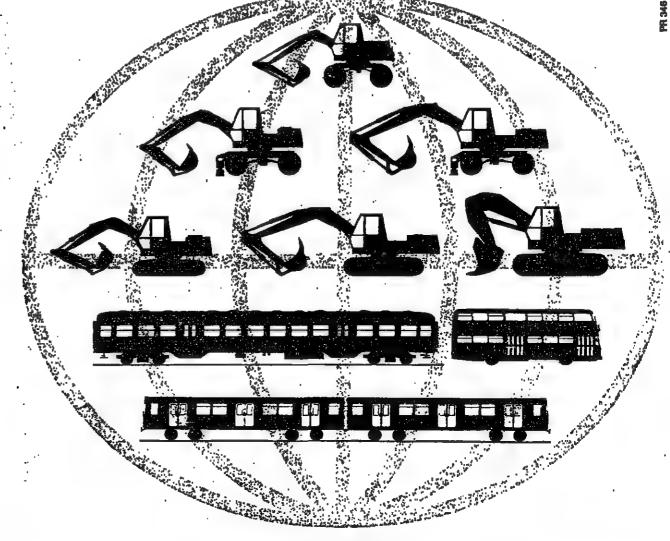


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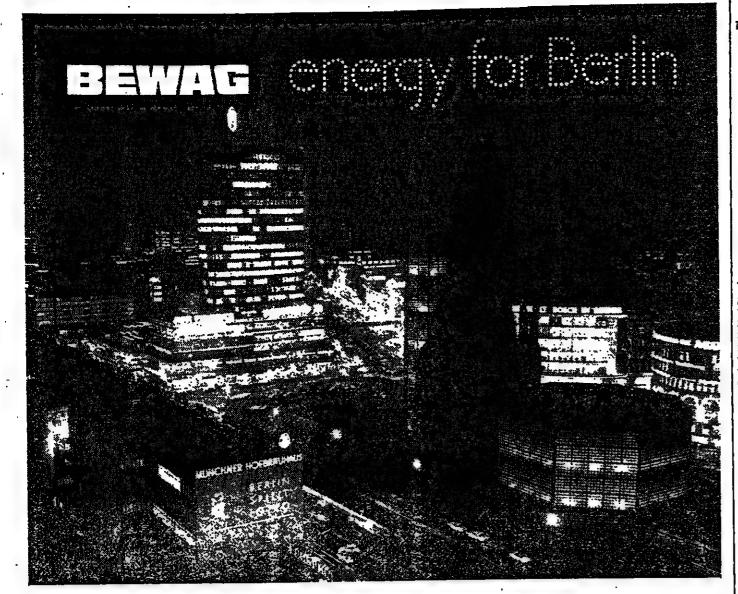
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Economy operates efficiently

WEST BERLINERS take for granted the highly efficient way their city of some 2m is supplied round the clock from West Germany and sends back most of its processed goods. This past winter, though, it struck home that not once did West Berlin ago. experience shortages of any kind or cuts in electric power during the severest storms in decades that wrought havoc all

around the city.

One little-noticed event illustrated the enormous improvements in West Berlin's position since the Four Power Agreement 30 years ago. Although East Germany was struggling with serious shortages of fuel and railway transport, it diverted extra East German Reichsbahn trains to transport oil from Hamburg to West

The annual transport across East Germany of DM 44bn in roads between West Berlin and West Germany takes place with fewer delays than experienced hy most large cities. West Berlin's geographic position is to he enhanced in coming years with the construction of an Authorship linking the city with Hamburg, while freight carried over the canals linking West Berlin and West Germany will he sneeded up by the renpening of the Teltow Canal in West Borlin, closed after the building of the Berlin Wall. A quarter of all freight carried hetween the city and West Germany already is shipped by harse. West Berlin's gross domestic

product last year rose 3 per with 34 per cent in West Cormage, an improvement that is expected to continue this year with an increase of 35 per cent in GDP for the city against.

For several years Berlin investments lagged behind those in the Federal Republic but last year capital goods investment was up 10 per cent and is eripécted to rise hy about 8 per cent this year, or about the same as in West Germany. Philip

essistance, it receives from most expensive cars in Germany Bonn. The Federal Government are driven from Grunewald a problem in West Berlin just

the economic assistance West Germany grants to regions requiring aid, which is an even higher proportion than a decade

Contrary to some fears when

the Four Power Treaty was signed. West Germany has steadily increased its financial support for Germany's largest city. Only last month Bonn arread to double its yearly subagreed to double its yearly sub-sidy to DM 83m for lowering the sidy to DM 83m for lowering the fares of passengers using British Airways, PanAm and Air France flights between West German cities and West Berlin. Federally-owned companies placed DM 351m in orders to West Berlin companies last year and Charcolle Helmut Schmidt and Chancellor Helmut Schmidt and the Economics Ministry have leaned on major West German companies to buy from West Berlin companies, all things, being equal.

Lucrative

The largest single subsidy to West: Berlin, amounting to DM 18bn in 1977, is the reduc-tion in the 12 per cent Value Added Tax from between 4.5 per cent to 10 per cent of the price of a product being sent to West Germany. The reduction depends on the value added to the product in Berlin and, before a 1976 ruling that at least 10 per cent of the product's value must be made in Berlin, there

were some glaring abuses.

For example, West German coffee roasters found themselves fosing their traditional business to West Berlin, and meat daughtering burgeoned out of all proportion in Berlin where it took little more than a blow to a carcass to qualify for a healthy reduction in VAT. Sticking a label on a botte of West German liquor and sewing a cutton on a finished jacket in West Berlin boosted profits considerably. Those indulgent days are over but it is still lucrative enough for many West German and foreign companies to manufacture in West

damm. The average Berliner industries with structural prob-has the highest level of con-lems such as mechanical engin-

Berlin's investment subsidy Berlin's investment subsidy is nearly as important and came to DM 384m in 1977. The city will buy a company a factory site for which it then pays 4.5 per cent of the purchase price and gets a hereditary lease. Companies are also reimbursed 12.5 per cent of building costs and the city gives a 25 per cent rebate for investments in machinery and equipment. Low-interest European ment. Low-interest European Recovery Program loans at 3.5 per cent for up to 14 years are made available for investments in buildings and machinery along with other advantageous city credits which amount to DM 126m a year.

A few weeks ago, the West German Bundestag voted to further improve assistance to Berlin by including engineer-ing consultants among the com-panies allowed VAT preferenpanies allowed VAT preferences. In addition, investment subsidies are raised for the purchase of buildings used for research and development and for data-processing equipment used in providing services for West German companies. The West German companies. The companies profiting the most in Berlin are capital intensive ones that have a high volume of investments, are profitable and sell most of their products. to West Germany or export them. A company such as BMW has its entire motorcycle production in Berline and is now investing DM 180m to build a new factory that will produce

Foreign-owned companies such as Gillette, IBM and IIT have major plants in West Berlin and both BAT and Philip Morris supply the West German and European markets from the city. Schering, the Berlin chemi-cals and pharmaceuticals com-Merris for example is investing DM 40m to expand its Berlin Second most important factory. Bosch is investing DM 35m. Daimler Benz DM 100m and Stemens DM 12m after putting DM 1bn into its factories in the city over the past seven years.

West Berlin's industry are income and corporate tax reductions amounting to DM 395m. Corporate taxes are income and income taxes are 30 per cent less. Small wonder that some of the past seven in the city over the city over the past seven in the

this year is paying 51 per cent mansions to the fashionable as in West Germany and several of the city's budget or. DM 8.4bn. restaurants off the Kurfürsten-West Berlin gets 58 per cent of damm. The average Berliner industries with structural problems. sumption of durable consumer goods among West Germans and, in fact, enjoys 8 per cent more income than in West Germany if he earns up to DM 30,000 a year.

lems such as mechanical engineering, have closed down. The number of workers in industry fell by another 5,000 last year but steadied late in the year at 172,000, a level its is expected can be held this year but which is down from 265,000 labe to is down from 265,000 jobs in

The city extols the advan-tages to companies of being close to West Berlin's scores of research and development institutes, including the Hahn-Meitner Institute for Nuclear Research, the Heinrich Hertz Institute, four institutes of the Max Planck Society, the Federal Agency for Materials Test-ing, the Institute for Produc-tion Technology and Automa-tion as well as the Technical University. West Berlin com-panies spent DM 540m on re-search and development in 1977 with the largest amount, DM 327m spent by the electrical industry and DM 169m by the chemicals and pharmaceuti-cals sector.

Expansion

One area in which additional jubs are being created is the service industry. The number of service industry. The number of service employees rose last year by 1.2 per cent to 148,000 or, 18 per cent of all employees. They have profited from the city's growing tourism, conventions and trade fairs which have also made necessary an expansion of hotel room capacity by 3,000 new rooms up to mid-1985. The city is now in the odd situation of having to find future hotel employees in Sicily because they are lacking in Berlin along with many other skilled workers.

Rest

West Berlin has made considerable efforts to attract West German workers to the city, whose population fell by 17,500 last year largely because of the excess of deaths over births. Estimates have the city declin-ing in population to 1.7m by the turn of the century, by which time it may have started attracting people from more overcrowded regions. The number of foreigners in West Berlin is continuing to rise and will reach 210,000 this year, making one in every ten West Berliners a foreigner or a first generation

Leslie Colitt Berlin correspondent

The wall becomes 'porous'

first time (three days before the building of the wall in 1961) has been happening. the contrast with the western sector was sharp enough. West the city has always been more than a window, the description, within its limits, was fair enough. East Berlin, on the other hand, had few shop windows to speak of, glittering or otherwise. The architecture appeared to be either bombastic wedding cake" style, after the Soviet pattern, or dour blocks of dwellings, after nobody's style in particular. Colourless, lifeless—It was a pleasure to move on to the relative cheer of Warsaw. Today those who know other

East European capitals well are inclined to talk of East Berlin as the shop window of Comecon. There seems little reason to challenge this judg-ment. The city appears quite full of Poles, Russians and others viewing the products of the East German "Wirtschafts-wunder" with that same uneasy admiration which Western European visitors accord the main cities of the Federal Republic. By comparison with the East Berlin of 18 years ago, the shops, the products, some of the main buildings in the centre mark a striking advance. Even the people seem to have changed—or is it just that they are better dressed It is not like West Berlin nor, perhaps, would one choose to live there oneself. But it is only fair to report the existence—for those not so far aware of it-of two had been periodically subjected shop windows in the former capital of the German Reich.

Where is the development leading? It is the obvious question, not to be answered discover, by anyone. "The Germans are extraordinarily dili-gent; in the West, in the East." one German commentator noetd " Does that earlier this year. really link them together? I'm just not sure."

The point is that the Ger- to the Berlin airlift. mans, through detente, bave received the opportunity to forge closer links-and they have used them. They are doing when for many in the West the and relatives on the other side

after 18 years of absence. The dropped out of sight. It is first lime (three days before the worth glanding back at what

The key was the Four Power agreement (hte United States. Berlin was described as the the Soviet Union, Britain and glittering shop window of the France) on Berlin, of September 3, 1871. That did not mark the start of Ostpolitik-Bonn had already signed agreements with the Soviet Union and Poland in the previous year. But it was the four-power accord which laid the basis for future advance in three main

First, the Soviet Union for first time in treaty form recog-West Berlin and the Federal Republic and agreed that these should be developed. It is true that there have been repeated squabbles over this part of the text, with each side interpreting best to suit itself.

Ouarrel

It could well be that another quarrel will arise shortly over the participation fo West Berlin in direct elections to the European Parliament. But one only has to compare the level of disputes with these situation which dangerous existed before 1971 to recognise the extent of the progress made.

Second, transit traffic by road, rail and water through East Germany to West Berlin was not only to be unimpeded but preferential would receive treatment. This, too, was a major benefit bearing in mind the repeated harassment to which Berlin's land lifelines -and to which they could be subjected again without treaty regulation. Some may recall this larconic message: "Due to a technical defect on the railway the transport administraadministration in Germany was The date was June 23, 1948. It Helmsted in both directions. was the Soviet action which led mans.)

Third. between West Berlin and East a were to be improved allowing

hours of negotiations between the Western Allies and the Russians, was followed by further detailed, difficult talks between the East and West Germans, who signed their own treaty regulating relations in 1972. general

A few figures will indicate the

extent to which these agreements have made their impactthe extent to which the wall has become "porous" as it were. West Berliners are allowed to visit East Berlin and East Germany for up to 30 days a year. Last year West Berliners alone made more than 3.2m such visits -some just for part of the day, some for longer. At the same time almost the same number of West Germans visited East Germany (against 2.2m in 1973). The number of East Germans coming the other way is much lower-confined, at present, to those of pensionable are or those who wish to visit the west for urgent family reasons." Nonetheless the total last year was 1.4m. Even the statistics for telephone calls show how the situa-tion has changed. In 1970 there were still no direct calls from West Berlin to East Berlin and

East Germany-in 1976 there

were more than 7m.

Beyond this growing network of personal contacts, which clearly must have an impact on the ideas and judgments of both sides, official talks have been going on. The most notable outcome was last November when the two German states signed a series of long-term agreements to strengthen further West Berlin's ties with West Germanywhile providing East Germany with more hard currency. (It has to be noted that the West Germans have paid large bills for many of the advantages gained over the years. The argument is that if the Berliners tion of the Soviet military gain, which they obviously do, and the East German people forced to halt passenger and benefit, which presumably they goods traffic on the line Berlin- must be some degree, then it is a price worth paying. The East Germans are, after all, Ger-

The main element in the communications new accords in construction of new motorway between Germony, including East Berlin, Hamburg and West Berlin West Berliners to visit friends important, incidentally, not only to the Germans, but also to

IT IS revealing and though. "Ostpolitik" of former Chan- of the Berlin Wall. The agree- Czechoslovakia and Hungary, provoking to revisit East Berlin cellor Willy Brandt has almost ment, the result of hundreds of which make big use of Hamburg port. Further, it was agreed that East Germany will reopen the Teltow Canal-thus shortening the barge trip from West Germany to West Berlin by two days. Talks are to go ahead on further improvements and meanwhile other official but non-governmental contacts are gathering pace. For example, a smiling Herr Eugen Loderer, head of the West German metalworkers union IG Metall, could recently be seen in East Germany, agreeing that he and his East German colleagues did not see eye to eye on everything, but that they found it useful to bave contacts and develop them.

Responses

The word "reunification" has been deliberately avoided since it arouses so many emotional responses as to make further consideration of the question difficult. (It is worth recalling, however, that the premable of the Federal Republic's basic law [provisional constitution] says that the entire German people are called upon to achieve in free self-determination the unity and freedom of Germany.") But if a key aim of Ostpolitik was to bring the two halves of Germany closer, to move towards a situation in which the Berlin wall became increasingly irrelevant, then it is fair to assess the policy as already a success-and, barring a serious rise in tension between the super-powers, likely to become

Leaving aside politics for a moment, it is worth recalling a song by Herr Wolf Biermann, the West German satirist who chose to live in East Germany but who was prevented from returning there after a concert tour in the West in 1976. Called "Deutsches Miserere" he sings of the people of Europe who, perhaps, are fortunate because Germany is divided into two hostile parts. But the wall will come down, he insists, and much will change on both sides. Politicians are not renowned for taking much notice of troubaeven good ones. Perhaps in this case they should think

Jonathan Carr

Congress centre on the grand scale

WHEN THE International Con- minutes from the airport by seat more than 8,000 partici- world conference by the Hoechst can be turned into an advantage. gress Centre is opened in West car. ... before an audience of 7,000, the the leading German convention for working sessions by rapid

on the congress centre's grand seventh place internationally. stage by the Berlin Philiar Herr Peter W. Haupt, the auditorium. The platform can monic. Orchestra, under building's general manager, says then be raised to create a ball-Herbert won Karajan, and the he hopes that by 1985 West Berroom holding 4,000, or a following day's concert by Karl lin will have risen to third place Böhm and the Vienna Philharmonic, will demonstrate that cities, behind London and Paris. no less attention has been paid to the acoustics of the build-ing's enormous multi-purpose halls than to their commercial

viability.

The opening of this DM 800m (£210.5m) futuristic structure is designed to help make West Berlin the first-ranking con-

vention city in Germany.

The silver-sheathed building. which appears to glide along its site like some gigantic opened matchbox, exudes the energy that typifies this city at its best. Situated next to the sprawling Berlin Exhibition Grounds and linked to them by a three-storey flying bridge, the build-ing also represents the city's even more ambitious goal to become one of the world's foremost convention centres. Convention-goers will cer-

tainly appreciate the centre's siting, five minutes by bus or vention or conference, the two underground from the heart of main halls — separated by the West Berlin and less than 10 enormous central stage - can

before an audience of 7,000, the the leading German convention for working sessions by rapid sheer size of both the event and cities, and is in 10th place converting of every other row of the building will strike many internationally. The opening seats into desks.

Germans as typical of the brash of the congress centre is About 2,000 participants can be beginness and their sprawling expected to propel West Berlin take part in a conference in city. The accompanying concert move the city into sixth or

among the world's convention

vention managers in other German cities than we have with our colleagues in Paris and corporated except for side-rests never be made profitable, and London," he explains. The to permit a conference snoone the new congress centre is rereason is that international conventions and conferences wander over the globe, and when they choose to meet in Europe, only one country is considered each time. Most of the rivalry takes place between that country's cities to host the convention, and this also explains why the new Berlin centre is so large.

"This year we will have three events with 5,000 people at each of them. Herr Haupt says, and this will fully utilise capacity. Next year there will be five events of this size.

Depending on the type of convention or conference, the two

Walter School of West Germany Munich and Hamburg as one of Hall 1 can also be transformed

are lowered from the ceiling, turning the hall into a tiered room holding 4,000, or a banqueting hall seating 3,200 diners.

A specially-designed Berlin There's far more competi-tion between ourselves and con-keep occupants' spines from collapsing has been installed in both halls with everything in-convention centres probably cau-corporated except for side-rests never be made profitable, and halls, the congress centre has a of about DM25m (£6.5m) third auditorium with 870 scats, annually, in line with other conand seven other rooms seating vention centres. from 126 to 288 people. Another Financial ber 70 rooms of various sizes provide more intimate surroundings for working groups.

> centre this year will be the European Brewers' Convention next month; the Vollywagen Company's shareholders' meetmeeting of Daimler-Reng car hotels, restaurants and shops. dealers, a shareholders' meeting

Democratic Party's national con-

A main event next year will

be a world convention of the International Bar Association. From now until 1981, the congress centre is booked solid, with 100 conferences and con-Another 270 events are now being worked on, up to 1985, and the centre is negotiating to hold conventions of 6-7.000 participants in 1987 and

Benefits

However, Herr Haupt says that In addition to the two main ceiving subsidies from the city

Financial benefits that do accrue will go to the economy of West Berlin, he says, pointing out that the average convention-Among the larger conventions goer spends DM 250 a day or and meetings to be held at the four times the amount of the the rentre's conferences and convontions in the first year of overstion are expected to spend ing, with 4,000 participants; a short DM 120m in the city's

gress Centre is opened in West car.

pants, with just over 5,000 in Company; and the German Social They point out that East
Walter School of West Company. Hereby, the city ranks with Hall 1 and 3,160 in Hall 2. Democratic Party's national conare forced to save hard currency, may prefer to have their citizens take part in a conference in West Berlin because they can stay overnight in East Berlin hotels for nonconvertible currency, rather than pay for costly trips to the

regular exhibitors at the International Tourism Exchange, held in the city in March, and which this year had 700 exhibitors from 80 countries and regions. It is regarded as a highly-successful event because of the importance of the West German holidaymaker to international tourism. The International Congress Centre and the adjoining Berlin The organisers of West Exhibition Grounds are seen by of West Germany's larger comBerlin's fairs and conventions their parent organisation, the parent of Exhibitions,
pany, Veba; a jubilee celebration believe that the city's location Berlin Company for Exhibitions.

The Berlin Exhibition

fairs are increasingly being held together with conventions.

example, takes place with a con-

grass each year, and the Inter-

national Green Week and the International Radio and TV

Exhibition

The Tourism Exchange, for

The idea that West Berlin may not be acceptable to East European governments for political reasons is discounted in the city. East European experts are expected at the European Brewers' Convention and international meeting on East European automobile production because they profit from such contracts. · Similarly. East European par-

ticipation is heaviest at those West Berlin exhibitions and fairs where East European countries see a direct commercial gain.
All the Comecon countries are

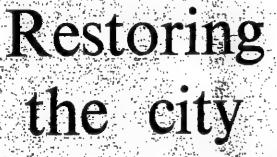
The new centre: typical of the brash Berliners mutually complementary, a park-like setting, make West it was last held in 1977. because trade and speciality Berlin the fifth-ranking exhibi-fairs are increasingly being tion city in West Germany. Last year 1.6m people, including

exhibitions in West Berlin.

Exhibition TV Exhibition in August, which

The Overseas Import Fair in September is another successful event which provides a trade 120,000 trade visitors from and contact forum on products Berlin and outside, attended from developing countries. The German Industries Exhibition, In addition to the Green Week held in Berlin every other year. and the Tourism Exchange held is to have greater participation than ever from the West German earlier this year, the major coming event is the Radio and car industry next year.

Les'ie Colitt



ONLY A few streets from the halls. Across the street from ONLY A few streets from the halls. Across the street from pulsating Knriftystendamm are the State library is the by now quiet tree-lined residential classic National Gallery by neighbourhoods with small ludwig Mies van de Rohe. family-owned shops in 1890s. In West Benjin's exgerness to Wilhelminian buildings that duplicate in miniatures, all that would long kines; have been seems modern elsewhere, the raised to make very for office city has built over 30 kilometres. buildings in most West German cities. West Berlin is guilty of its there of urban mis-plan-ning, but thus far it has been spared the unbroken recodes of

glass and steel in a mid-on-drained of life after derkness The city's blend of spart-ments, offices and shops is less a virtue than a product of necessity as West Berlin has no uburden hinterland luring its inner city residents with pre-fab

Despite the building of over haif a million new flats since the war and the apparent balance in housing of 1 Im fats to 19m inhabitants, newly arrived Weaf Germans say the actual housing shortage is worse than in West German cities. For one thing the city still has ever 600,000 apartments heated by coal burning ovens and 250,000 the surface of the control of the co Germans compete for the better

The city's goal is to modernise 200,000 substandard dwellings in the part 25 years at a cost of over DM 9.8km, of which DM 7km will be in public funds mainly from West Germany. This marks the most ambitious public in Courant in project in Germany to restore the inner districts of a major city and prevent their decay

An international building exhibition is to be held in West Berlin in 1987 to demonstrate at first halld how city cores can be revitalised. One can view the results of the 1931 building exhibit on "housing estates in green spaces" by visiting the Horseshoe, Siemens and Uncle Tom's Cabin housing estates Tom's Cabin housing estates which are still regarded as highly livable in by their

Renovated

Some 60,000 apartments are while the old town in Spandau district is to be fully restored with four city squares given back their lost urban quality. Nine thousand new flats are to be integrated into the inner city without sacrificing green surroundings West Germany is providing DM 48m to reconstruct the former Applied Arts Museum with the help of Polish craftsmen, the Ephraim Palace is also to be rebuilt at a cost of DM 22m and is to house, among other things, the Jewish Museum of Berlin. Yet another restoration is that of the citadel in Spandau, to be completed at . a cost of DM 72m with DM 27m coming from West Germany.

West Berlin's postwar cul-tural complex arcing toward East Berlin's restored Unter den Linden, has a DM 200m addition, the State library de-signed by the late Hans Scharoun. Scharoun was also the gifted architect of the nearby Philharmonic building whose striking in the round interior and acoustics make it one of the finest of modern concert

of inner city autobaha which is being expanded by another 19 km; with 20 km more planned if Berliners have not rebelled

On the positive side West Berlin's underground which is 97 km in length (East Berlin has another 26 km), is to be expanded to 140 km in a few years and 200 km is the goal. Public transport in West Berlin subblemented by German-run urban railway, the S-Bahn, which provides one of the more unusual tours along the West Berlin side

Amenities

Although Berlin already has more amenities than many other large cities, it is trying to improve their distribution. West Berlin's 360 km of streets with bicycle paths, mainly in the suburbs, are to be expanded to over 500 km including inner districts. The city is well endowed with green areas but the spread is unequal. The southeast district of the city is to get a wholly new park by 1985 when the West German garden show is to be held in Berlin.

created 20 recreation areas on top of 250 hectares of former garbage dumps containing 100m cubic metres of rubble and waste; DM 67m is being spent on completing this urban land reclamation by the mid-1980s. Young adults in Berlin are showing increasing interest in

a form of Berlin family life that flourished over the years but appeared in danger of being extinguished: the allotment garden. Here families spend their free hours tending fruit trees and flowers and drinking and eating with friends outside tiny houses. Relief is offered from city pressures which are often only a few hundred yards outside the gates of the garden colonies. West Berlin still has 48,000 of these allotment gardens and, although many of them were eliminated to be renovated and modernised in recent years by road con-as part of the 1984 exhibition, struction the new policy is to struction, the new policy is to ensuré their survival as a stablising influence in a root-

less era. Ironically, Berliners feel hemmed in when they live in most other cities and the explanation is that Berün has the largest forest area of any European city. Statistically, there are 36 square metres of woodland for every West Berliner and on warm summer days they lay full claim to them. More than half of West Berlin's 184 square miles consists of forest, lakes, gardens and parks and in mid-summer there are actually traffic jams involving thousands of boats of all sizes on the Wannsee and on Tegel

West Berlin's statisticians work their limited territory rather intensively and have come up with the fact that all the water frontage in the city adds up to 300 km. In this day and age how many cities are able to spend DM 600,000 a year simply on preserving and planting reeds along their lakes and



Research for Tomorrow's World

The future is daily routine at Heinrich-Hertz-Institute for communications technology. Here basic research goes into the development of new sound and picture transmission systems, such as twoway cable TV, text screen display, laser beam and fiber glas as media for storing, transmitting and processing of data. The impact of new technology now under development has yet to be assessed. It will provide new highly qualified jobs, revolutionize office management and open up a whole new dimension of utilizing TV systems for telecommunication.

A total of DM 600 million annually goes into research and development in Berlin. With its 106 institutes, 9 technical colleges, 2 universities and its cultural and scientific background Berlin rightly lays claim to being the Federal Republic of Germany's centre of science and research. For more information turn to Berlin's press and information centre: Presse- und Informationsamt des Landes Berlin 22/79, Rathaus Schöneberg, 1000 Berlin 62.

Research in Berlin

Provocative city liked by artists

A FOREIGN theatre director former mayor, Herr Willy films in the city. And the lure says living in Germany brings Brandt, confronted the Com- may even work. out a creative tension between munists before and after the himself and his surroundings Wall was built and where he because Germans are forever came to the conclusion that butasking provocative questions, ting one's head against the Wall He would find Berlin tailor was not going to open it up.

and yet the Berliner has had his pare incomes and prices. fill of slogans and ideology.

successors are producing endless parts almost all its popular imitations. Berlin is where the music from the U.S. and Britain. German and European student revolt was sparked off-by a visit to the city 12 years ago by the Shah of Iran.
The student revolt subsided

into social democratice reforms out an encless stream of quality for Germany but for the Shah films for European audiences. heginning of the end.

it is there that detente also met Berlin is the youngest of the with the greatest resistance on great European cities and yet it both sides of the Wall. It is a has seen so much it seems to city where tens of thousands of know it all. Divided Berlin is a Germans from East and West microcosm of divided Europe meet each day and mainly com-

Herbert von Karajan conducts Berliners in the West partake of the most democratic of most subline orchestra theresocieties while Berliners in the East live in the most dictated to the schools produce adults who of proletarism dictatorships.

Berlin is where the Bauhaus, music. The city that once the German art and design created operas, operations movement, reached its zenith songs hummed by generations and where a generation later its of Central Europeans now im-

Good reasons for

Fifty years ago Berlin turned

Berlin may never again have the artistic life it enjoyed between the two world wars, but it does have a growing number made for him because it is certainly one of the most provocative cities there is.

Berlin gave birth to detente of German and foreign painters and sculptors who find the it is there that detente also met work. A lot of the credit for this should go to the Artists in Berlin Programme started by the Ford Foundation and taken over by the German Academic Exchange Service.

The programme has brought Berlin such painters, sculptors, writers and musicians as Edward Kienholz, Peter George Dorothy Iannone, Miklos Haraszti, Rick Cluchey, George Tabori, Witold Wirpsza, and Isang Um Yun, many of whom have decided to stay.

Among the local painters and sculptors with a following are Kurt Muhlenhaupt, whose Berlin primitives are especially popular in West Germany and Bernhard Heiliger, who is mainly a representational painter.

Those who are knowledgeable about the local art scene say too many Berlin artists are more

ment on their own. The artists. New York-all of them great student demonstrations of the in turn, criticise the city for engaging in too much cultural Berlin's arts enough.

important facts about conventions and

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artists than they are in achieve. Show in Paris and Berlin Now in disappointment. The great no fewer than four competing aim is to help Third World ment on their own. The artists, New York—all of them great student demonstrations of the May Day demonstrations, from countries strengthen their culsuccesses—while not nurturing 1960; and 1970s have died down but some of their theatrical So much in Berlin has an flavour lingers on at the city's

the highly organised march-past in East Berlin with thousands of booming loudspeakers, to the clenched fists of the Communist League of West Germany in a working-class district.

Young Leftists at the West erlin demonstration are Berlin demonstration are the cultures of the Caribbean dressed for the occasion in some and Latin America which were of the finest proletarian tailor-ing seen off the stage of the Berliner Ensemble theatre in East Berlin. Their discipline is nearly as impressive as it was during the student revolt when young Berliners, chanting "Mao Tse-tung" and charging down the fashionable Kurtursten-damm would be stopped in their tracks when the traffic lights

The Schaubuhue am Halleschen Ufer, Berlin's most celebrated theatre, is the place to experience extraordinary acting and staging even of un-remarkable plays such as the current Rudi, by Bernard von Brentano. It is being presented in an abandoned former luxury hotel which abuts the Berlin Wall— one of the theatre's temporary venues until its new premises are ready.

The Schaubuhne's current 54-hour production of Dean Destruction and Detroit by Robert Wilson, is a treat for those with the endurance to sit it out in the queues and the luck to get tickets. The Schaubuhne will be getting a reconstructed DM 70m theatre of its own from the city on the Kurfurstendamm . and with the level of public support it is getting, it is hoped that rigor mortls will not set in.

Walk-out

Berlin is the city of cultural festivals with theatre and music festivals in both east and western sectors and the annual West Berlin Film Festival. This February it was interrupted by a classic Cold War walk-out by the East Europeans over The Deer Hunter, a not very incisive American film about the Vietnam war.

A new festival is being held this year in June called Horizons, the First Festival of World Cultures. It is to be inaugurated by Herr Brandt in his capacity as President of the North-South Commission. Dr. Ulrich Eckhardt, director

of the Berlin festivals, says one

countries strengthen their cul-tural identities. The idea is to get away from presenting, as he puts it, "African symphony orchestras that play Beet-hoven" and the first Horizons Festival is to stress Africa south of the Sahara including

influenced by Black Africa. Horizons may even succeed in bridging the gap between a festival and a large city with in musical programme devoted to African pop, beat and rock and African bands appearing at street events all over West Berlin.

Miriam Makeba, who sang at last year's Jazz Days, has been invited to sing along with ten female musicians and singers from Guinea and there will be drummers from Burundi, Yoruba dancers from Nigeria and Afro-soul from the Ivory Coast.

Seminars

African theatre ensembles such as the Ghana Drama Studio, the University Theatra of Tanzania and the Aafumi Theatre will perform and authors from Black Africa will discuss the role of writers in developing countries.

It is evident that no expense in the countries of
is being spared by federal or local government to make sure that West Berlin stays in the mainstream of culture and the erts. This is also the reason the city supports the Aspen Institute of Berlin which, in the few years since it arrived, has brought leading politicians, economists and social scientists to West Berlin for seminars on problems facing the Western. Communist and Third Worlds.

Incidentally, the capital of former empire of Prussia, is planning to hold a spectacular exhibition in two years' time called the lines along Tendencies of the Twenties art exhibition which was a huge success in 1977.

The mere thought of Prussia. causes Germans in other parts and many foreigners to wince. but the exhibition might turn out to be a highly provocative and perhaps eye-opening event

Aspen Centre's success

THOSE DESIRING peace and ference bringing together among quiet in order to think more others, Albert Schweitzer, island. But those seeking a Wilder. The institute's operat-reminder of the harshest ing budget now exceeds \$4m-realities of international politics from public and private sources. will find it in Berlin. So an Its headquarters i island in West Berlin seems and it has a be the ideal spot for those who national trustees. want both at the same time.

Since 1974 these conditions have ben fulfilled by the Aspen Institute, perched on Schanen-werder Island in the Wannsee lake, on the outskirts of West Berlin. A boat trip one way would take you towards the centre of the city and one the other way would carry you to the border with East Germany. In the institute's main room with a view out across the water, hundreds of politicians,

academics, journalists and others from many countries have gathered over the years to discuss topics ranging from arms control and nuclear energy to education at the end of the century.

Heated

Each meeting is limited to a maximum 24 participants so that the exchange is more intimate and frank than at many other international symposia. But however fascinating the topic-and heated the discussion, it is hard to forget at Aspen the political environment to which ideal theoretical solutions must be tailored.

Aspen, Berlin, is an offshoot of that "institute for humanistic studies" which began in 1949 in Aspen. Colorado, with a con-

others, Albert Schweitzer, Ortega y Gasset and Thornton Its headquarters is in New York and it has a board of inter-

The success of the Berlin centre clearly hinges in large measure on its director, Mr. Stone, Shepard honorary citizen. Berlin as a student in the 1920s and Germany in the post-war years as director affairs to the U.S. High Com

missioner, John McCloy:
"Shep" Stone appears know almost everyone who is anyone (Chancellor Helmut Schmidt and Dr. Henry Kissinger have been just two recent participants at Aspen)-but is no respecter of persons. Those inclined to mumble or wander from the point are rapidly put right by a sharp interjection— however renowned they may be

Where does Aspen, Berlin, 20 from here? One clear answer is that it is ideally situated to profit from that developing dialogue between East and West Germany—whose significance goes far beyond the two German

states alone.
It provides an ideal forum for detailed, personal discussion of political and cultural issues without formal political commitment From this viewpoint, it is not too fanciful to suppose that Aspen. Berlin, will be holding still more rewarding gatherings in the next

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| 1077 | +0.2 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | - 100 | +0.3 | +0.3 | - 100 | +0.3 | +0.3 | - 100 | +0.3 | +0.3 | - 100 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0.3 | +0. | NEL | Pensions Ltd. | Sept. NEL Pensions Ltd.

New Zealand Ins. Co. (UK) Ltd.9

Makisad Souse, Southerd SSI 2JS

O702 62955

Kird Key Ins. Plan. 181.3

186.9 4.49

Technology Fd. 111.3

121.5 -0.9

Edva Int. Fd. 185.6

111.2 -1.0

Extra Int. Fd. 186.3

American Fd. 186.3

American Fd. 186.3

Far Ext. Fd. 186.3

American Fd. 186.4

Co. Deposit Fd. 186.3 Norwich Union Insurance Group

PO Sex 4, Norwich NRI 3NG. 0603 22200

Managed Fond 244.4 27.2 -2.5 Equity Fund 121.0 443.1 -3.1 Frozerty Fund 14.8 147.2 +0.1 Frozerty Fund 16.8 177.9 -0.9

Roy. Unit March 15 243.0 -Pearl Assurance (Unit Funds) Ltd.
252, High Holbors, WC1V 7EB. 01-405 846).
Laraged Fund 1175 123 1 -Equity Fond 12.0 1251 -Froperty Dist. 110.2 125.5 -Property Accum. 131.6 140.7 --01-626 9876

Phoenix Assurance Co. Ltd. 4-5 King William SC. EC4P 4HR. Wealth Ass. 123.4 129.9 Eb r. Pl. Ass. 88.3 93.2 73.2 Prop. Equity & Life Ass. Co.9
119 Crawford Street, WIH 2AS. 01-486 0257
R. Silk Prop. Bd. 10.9
Do. Ecolly Bd. 15-7 —
Pier Monty Ed. 15-7 — 01-680 0606

| Prop. Fd. March 30 | 82.7 | 90.1 | -3.9 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | 15.7 | Providence Capital Life Ass. Co. Ltd. 01-749 9111

Provincial Life Assurance Co. Ltd. 222 Shibopsgate, EC2.

Prov. Managed Fd. 133.4 140.5 46.8 — Prov. Cash Fd. 1693 115.1 46.7 — Glit Fand 130.5 147.3 — Glit Fand 130.5 147.3 — Glit Fand 130.5 147.3 — Glit Fand 122.6 122.5 — Glit Fand 122.6 123.5 — Fad. Int. Fund 122.6 123.5 — Fad. Int. Fund 122.6 123.5 — Glit Fand 12 01-247 6533 8, New Ref., Challam, Kerot. Medway 812348
LACOP Units 1950 10.50 | Prudential Pensions Limited®
Holtom Bars, EC.IN 29H. (
Holtom Bars, EC.IN 29H. (
Ropit, Fd. March 21. 129,93 29,93
Exempt. 111.6/ 1 6.49 Prop. Fd. March 21. 120,20 21,13
Prop. Fd. March 21. 120,20 21,13

Solar Life Assurance Limited
10/12 Ely Piace, Lordon, ECIN 57T, 01-242 2905
Solar Managed S. 114-1 149,6 -1-5 Solar Property S. 112-6 126 1-19 Solar Eggity S. 205.6 216,7 -19 Solar Eggity S. 205.8 216,7 -19 Solar Eggity S. 205.8 216,7 -19 -Sun Alliance Fund Mangert, Ltd. Sun Alliance House, Horsham. 0403 64141 Exp. Fd. Int. Mar. 14 1762 5 169.4 Sun Alliance Linked Life Ins. Ltd.

Trensinternational Life Ins. Co. Ltd.

2 Sream Bidgs, ECA INV.

9 Tulip Inves. Fd. 1610 169.5 5697 6

9 Man. Ben. Fd. 261 112.5 139.0 189.8 189.0 189. Tyndall Assurance/Pensions®

18, Canyoge Road, Bristol.

3-Vizy March 29. 137.7

Cop. Persion Mar. 22. 153.7

Egynty March 29. 182.0

Bond Mar. 29. 122.8

Creating March 29. 122.8

Creating March 29. 122.8

Creating March 29. 122.8

Creating March 29. 123.8

Creating March 29. 123.8

Creating March 29. 138.9

Creating March 29. 138.9

Creating March 29. 138.9

Creating Pen. Mar. 1 184.4

Egynty Pen. Mar. 1 184.4

Deposit Pen. Mar. 1 184.4

Deposit Pen. Mar. 1 184.4

Creating Pen. Mar. 29. 138.2

Vanbrugh Life Assurance

Fixed Int. Fc Series 2108.2 195.0 - C.3 - As at Feb. 28. Next sub. cav Nursh 30 Cash Fd. Series 2 1134.4 131.0 - Lardine Fierning & Co. Ltd.

Vanbrugh Pensions Limited

41-43, Maddor St., Len. W1R 91.4 01-499 4923 | Maraged 116.1 127.3 +01.6 | Lardine Esta. Ts. | HKS305.14 | 2.50 | Maraged 116.1 127.3 +01.6 | Lardine Esta. Ts. | HKS305.14 | 2.50 | Lardine Esta. Ts. | HKS305.14 | 1.50 | Lardine Esta. Ts. | HKS305.14 | Lardine Esta. Ts. | HKS305.14 | 1.50 | Lardine Esta. Ts. | HKS305

OFFSHORE AND OVERSEAS FUNDS

Arbuthmat Securities (C.I.) Limited
P.D. Boc 284, St. Heller, Jersey. 0534 76077
Cap. Tst. (Jersey). 126 133 ... 3.65
Git Fund Liersey). 125 10.00 ...
Gov't Secs. Tst. 127, 100.721 +2.7 12.41
Gill: Find. Guernsey/10.12 10.17 11.42
East Airel Tst. (Cit. 199 10.6 ... 3.54
Next dealing date April 2
Next dealing date April 2
Next dealing date April 3
Next de Arbothnot Securities (C.I.) Limited

Barclays Unicern Int. (Ch. Is.) Ltd Three Quays, Tawer Hill EC3R 68Q.
Atlantic March 27 ... SUS115 3.4
Aust, Ec. Warch 28 ... SUS143 2.77
Cald Ex Are. March 28 SUS12 81 14.18

Prices at March 28. Next dealing April 4
Richword Life Ass. Ltd.
48, Athol Street, Douglas, 1,0,M. 0524;
(x) The Silver Trust ... 135.0 138.2 1.9
Richword Gd. 8d. ... 130.0 137.0 1.1
Do. Platinum 8d. ... 130.0 137.0 1.1
Do. Diamond 8d. ... 102.8 184.3 -3.1
Do. Diamond 8d. ... 102.8 184.3 -3.1
Do. Diamond 8d. ... 102.8 184.3 -3.1
Do. Carrillon CG. 18d. ... 96.0 101.0 ...
*Carrillon CG. 18d. ... 96.0 101.0 ...
*Carrillon CG. 18d. ... 96.0 101.0 ...
*Price on Harch 12. Next dealing April 1.

Royal Trust (C.I.) Fd. Mgt. Ltd.
P.O. Box 194, Royal Tst. Her., Jersey. C53
R.T. Int'l. Fd. Super 46 10.07
R.T. Int'l. Ltd.) Fd. 180.0 84.6

Schroder Life Group Enterprise House, Portsmouth.

P.O. Box 1256 Hamilton 5, Bermida, 2-2760

14, Rice Aldringer, Linemocurg. U.S. Tal. Inv. Ford ... | USS11.08 | -503| 0.50 Net asset, March 27. S. G. Warburg & Co. Ltd.

S. G. Warburg & Co. Ltd.
30, Gresham Street, EC2.
Cm. 86, Mar. 29.
Susy 69
Susy 79
Sus

World Wide Growth Managements 10a, Baulgrard Royal, Lexenstring Worldwide Gib Fd SUS27.09 (+1.02) — Wren Commodity Trust

| Ltd. | Samuel Montagu Ldin. Agents | 114, 0k Broad St., EC2 | Apoll Fed. March 281574425 | C8.059 | Logiest March 15 | Logiest March 15 | Logiest March 16 | Logiest March 16 | Logiest March 16 | Logiest March 17 | Logiest March 17 | Logiest March 18 | Logiest March 18 | Logiest March 19 | Logies

17.5. Dollar Demonstrated Fels.
Unives! S Tsi. 5315562 4.131 +11
Int. High Int. Tst. 51150.77 1.0ml 1.9.00
Value March 30. Next dealing April 2. Butterfield Management Co. Ltd.

DWS Deutsche Bes. F. Wertpapiersp

on & Dudley Tst. Mgt. Jrsy. Ltd. P.O. Box 73, St. Heller, Jersey. 0534 73933 E.D.I.C.T. 135.2 143.9 +1.9 3.00 grang Street, EL2.

Eng. Ass. Sterling* __E52.63

Wardgate Cm. Fd.** E14.22 14

*Next durling April 4. **Next t

Euroband Holdings N.V.

1-2 Leurence Polizioney Hill, EC4R 0BA 01-623 4680 Cent. Fd. March 28...] \$US5.96 [+0.13] ... Fisielity Migmit. & Res. (Bda.) Ltd.
P.O. Box 670, Harmiton, Bermuda
Fisielity Am. Aus.
Fisielity Inf. Sav. 7st.
Fisielity Inf. Fund.
SUSCE 50
Fisielity Wris Fd.
USIA 56
-002 Fidelity Hight. Research (Jersey) Ltd.,
Waterloo Hse., Don Sc., St. Heiler, Jersey. 0534
27561
Series A (Intel.) (3.70 | -0.00 |
Series B (Pacific) £1.89 | -0.00 | -0.00 |
Series O Can.Ass.). £16.60 | -0.00 | -0.00 | First Viking Commedity Trusts

Japan Fund March 30(3US919 9.66)-0.111 —
Hamibres Fd. Mgrs. (C.L.) Ltd.
P.O. Box 86, Guerner. 0.681-26521
Capital Reserve Fdt 17011 10.13 0.25
C.L. Fund 1701 1811 3.70
Intl. Bond 5US10209 105.25 3.70
Intl. Egoty 5US1177 12.09 105.25
Intl. Seps. 18 5US108 111 —
Int. Seps. 18 5US108 111 —
Int. Seps. 18 5US108 111 —
Int. Seps. 18 5US108 112 —
Prices on March 30. Med dealing April 4.
†Excludes initial starge on small orders.
Henderson Baring Fund Mgrs. Ltd.
605. Sammon House, Hood Mgrs.

Frenterson House, Hong Kong,
Japon Furd Mar. 28. | SUSS 212 | 22.19 | | Profile Fund Mar. 28. | SUSS 212 | 40.34 |
Bond Fd.* March 24. | 10.651 | 40.34 |
Exchalte of any prefin. charge.
Hill-Samuel & Co., (Guernsey) Ltd. | Mill-Samme| & Co. (Gizernsey) Ltd.
| 8 Lefetove St. St. Peter Port, Guernsey C.I. |
176.8	189.1		...	3.10
Hill Samme	Invest. Mgmt. Intsl.			
P.O. Box 63, Jersey.	6534 27381			
HS Channel Is. F.	124.6	143.7;	3.60	
Sox 722, Bern, Suizerland, Telex 33425				
H.S. Oversess	1578.92	29.09.40.03		
C.S.F. Fd. (Acc.)	576.51	16.84-9.03		
Crisions Fd. (Acc.)	576.51	16.84-9.03		
If Fd. (Acc.)	508.92	7.34-9.04		
Ifternational Pacific Inv. Mgmt. Ltd.				
P.O. Box 8237, 56. Pitt St. Sydney, Aust.				

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Samuel 1872

B.L. K Alta The view of

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June Do. "A" 2 May Danish Scn.

ENGINEERING—Continued

FOOD, GROCERIES-Cont.

Boxel 41₂pc 13 LO FAIR 71-70-1
11 Di Japan 4pc 70 Ass
301 31D Do Apc 23-88 ...
10 Peru Ass 3pc ...
201 31D S.G. I. 61-9c 1980
May I Turin 61-pc 1984
15 M AN Urugusy 31-pc ... **AMERICANS** East Dir. C'm Gr's ASA
AMF 5% Conv. 87
Amax 51
American Express
Amer. Medic. int.
Asarco int.
Bater intal. Corp. 51
Barnes Grp. \$625. MAJR Se. Je. Mary S. Conf. Illinois \$10.
Mr. Je. S.D. Conf. Oli 55
An. Jr. Je. Crown Zell. \$5
F. M.A. M. Exton Crp. \$0.50.
J.A. J.O. Exton II.
J.A. J.O. Exton II.
J.A. J.O. Firestone Tire II.
Ap. Jr.O. Js.
First Chicago. ATX Sen. Elect \$21₂ . Sillette \$1 Honeywell \$1.50 Over Fifteen **CANADIANS** INTERNATIONAL BANK 15A.15oc Stock '77-82 1 CORPORATION LOANS M.Je.S.D. Royal Bk.Can. S2. September September Co. CSI F.MyAuN. Tor. Dom. Bk. S1. J.Ap.ly.O. Trans Can. Pipe... BANKS AND HIRE PURCHASE COMMONWEALTH & AFRICAN LOANS | District 8.7 — Jan. — 5.8 — Jan. — 5.6 — Jan. — 15.8 — April — 15.8 — April — 15.8 — April — 15.3 4.4 — 15.3 4.4 — 7.2 — April — 7.4 — April — April — 7.4 — April — 7.4 — April — April — 7.4 — April — April LOANS

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Lillagic Mt. 5pc '99-89' 65 112 7.83 10.94

Lillagic Mt. 5pc '99-89' 89 1311 12.32 12.70

Lillagic Mt. 5pc '89-89' 89 1311 12.32 12.70

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> > hurch Comb. Eng. 12120 Cope Sports Sp. Cornell Dress Sp.

July Debenhants ...

Nov. Dewintrst 100 ...

ct. Dixons Photo 100 love.

Empire Stores ...

ct. Executez ZDp.

July Do. 'A' 5p.

July Do. 'A' 5p.

July Hne Art Dess. 5p.

Oct. Ford (M'lin) 109
Ass. Forminster 100.

Freemans (Lon) -Gelfer (A.J.) 200. Goldberg A....

Apr. Greenfields 1/ Oct. Hardy (Furn) Oct. Do. 'A' NV... Nov. Harris Queensw Sept. Helene Lon. 1/

BEERS, WINES AND SPIRITS Mar LAillied Brews. ... Sept Amal Dist Pr.10p. City Lon. Def... Tark (Matthew)

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7.00 4.7 1.8 7.7.00 4.7 1.8 8.330.2 1.8 8.9 8.9 1.8 8 French KorGalliford Br. 5p
Gabs D'dy A 10p.
Glesson (M.1) 10p.
Glesson (M.1) 10p.
Glossop W. & J.
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Heerdes Sr. 42 10p.
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Hoverleghan

Jame Higys & His Jame Higys & His Jame Higys & His Jay High Band Sharl Jop Oct. I. D.C. 200 — May listock Johnsen Oct Jint. Timber — July J. B. Haidung Jūp. — L.C. G. — Sept. Lewring SAO 50. Aug. Johnson-Richards Jones Edwd. Jūp. — Lary Lawrence (W.) — Jay Llafarge S.A.F.10. Laing (John) "A" — Aug. Latharn (J.) £1. July Lawrence (W.) — Dec. Leech (Wm.) 20p Dec. Leytand Paint. June Lilley F.J.C. — June Lilley F.J.C. — June Lilley F.J.C. — June Hillinson-Demy June Manders (Hidg) Apr. Marcharlel — Nov. Micherli Group — Oct. Marshalls (Hid) App. Marcharlel — Nov. Miller (Stan) Jüp Apr. Marcharlel — Nov. Miller (Stan) Jüp Apr. Mi

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CHEMICALS, PLASTICS Dec. Alginate Inds...
Sept. Alf'd Colloid 10p.
Nov. Anchor Chem.
Nov. Bayer AG. DM.50
Apr. Biaggien Moalors.
July Brent Chems 10p.
June Brit. Tar Pril. 10p.
July Burrell 5p.
July Burrell 5p.
July Carless Capel 10p
May Catalin
June Class for 7 1% i.m.

Sept. London & Mid'd
Nor. M.L. Holdings
Mangan Bronze
June Martonair 20p
June Middling Sup. 10p
Sept. MitchellSon.10p
July Middling Sup. 10p
Sept. MitchellSon.10p
July Middling Sup. 10p
July S Do. 27% P. 12% July Series (1) A ... July Se | Sample | S **ELECTRICAL AND RADIO** Oct. Victor Products
May Wosper
Aug. W. G. J. Soc.
Jane Waddin SOc.
Oct. Wagon Industr'l
July Waiter (C. & W.)
July Ward (T. W.)
July Waiter (C. & W.)
July Waiter Group
Sept. Wellman Eng'g,
June Wiess Assoc. Lip
Hay Weir Group
Sept. Wellman Eng'g,
June Wiess Assoc.
Water Group
June Wiess Assoc.
Water Wiess Assoc.
July Williams (W.)
Apr. Williams (W.)
Ap

ENGINEERING MACHINE TOOLS July Alpine Soft D 10p Junel Ass. Biscuit 20p Sept. Ass. Brit. Fds. 5p Oct. Ass. Datries... Oct. Ass. Fisheries... Sept. Awana Group 5p Nov. Banks (Sidney C.) Barker & D. 10p. Aug. Barr (A.6.)... Dec. Barrow Milling. Aug. Bassett (Geo)... Sept. Batters Vork 10p. Aprill Belant 10p... Sept. Bibby (J.) £1... July Bishop's Stores. July Do. "A" N/Y-9. Oct. Bluebird Conf., Feb. Brit. Sugar 50p Nov. Brit. Sugar 50p. June Brooke Bond....

Sept Tesco 5p. HOTELS AND CATERERS

INDUSTRIALS (Miscel.) Mar Bath & Portland Dec. Bath & Portland Dec. Bather Travenor. May Beatson Clark.... Aug. Beecham

| The color of the May New Beritsin Vitts 11

May Cot. May Burndens (Mum.).

May Now Burns Ands'n 10p.

May May Now Burns Ands'n 10p.

May May Cope Industries 11

May Cot. H. Ind's. 10p.

May May Cope Industries 11

May Cot. H. Ind's. 10p.

May May Cope Industries 11

May Cot. Beritsin Ind.

May Cot. Consiste Ind. 10p.

May May Cope Industries 11

May Cot. Cristis Ind. 10p.

May May Cope Industries 11

May Cot. Cristis Ind. 10p.

May Dec. Cote (R.H.) SL.

June Clarke (Clement)

June Cot. Cristis Ind. 10p.

May Dec. Coverning Ind.

May Cot. Cristis Ind. 10p.

May June Co. Cristis Ind. 10p.

May June Co. Cristis Ind. 10p.

May Dec. Coverning Ind.

May June Ind.

May Dec. Coverning Ind.

May June Ind.

May Dec. Coverning Ind.

May June Ind.

FOOD, GROCERIES, ETC.

FINANCIALTIMES

Monday April 2 1979



FT BUSINESS OPINION SURVEY

Economic hopes still at low level

the prospects for the UK ness outlook, with labour economy continued to fall last unrest, fears of recession and Financial Times survey of busi-ness opinion, published this most commonly cited reasons. morning. Confidence remains at the lowest level since the end of 1976, when the International building and construction. Monetary Fund deal was being textile and clothing and food negatiated.

building and construction. textile and clothing and food and tobacco sectors. The inter-Industrialists were also pessi-

Teamsters

confront

Carter

according to the gloomy attitudes to world The survey conducted in March, covered executives in the

INDUSTRY'S confidence about mistic about the general busi- before the likelihood of an early gesting that the drop in demand General Election became apparent.
The survey finds some evi-

EARNINGS ON CAPITAL

Those expecting earnings during the

Remain the same

Contract

level, as did order books, sug- round.

dence of slackening demand, over the conduct of the unit costs. both at home and abroad, with economy was the unequal level a decline in prospects for of pay settlements. It was exports and the level of turn-feared that these might lead to margins to contract, with price over over the coming year. further wage inflation and competition or and competition of the price over the coming year. ver over the coming year. further wage inflation and comp However, new orders re-industrial trouble before the and mained at a relatively high end of the current wage

One of the main complaints were more optimistic on total

Sept.- Construc-Food & Textiles &

35

12

60

- 25

17

22

19

. 13

However, both the building to be the key reasons. Details, Page 6

UK ready

with EEC

budget

protest

BRITISH MINISTERS are

expected to use a two-day joint meeting of EEC finance

and foreign ministers, starting in Luxembourg today, as a platform for loud protests about the alleged unfairness of the UK's contributions to the Community Budget.

The view in both Brussels and London is that the pro-tests will be produced much more for domestic political

consumption ahead of the

election than any serious hope

of securing early agreement on changes in the Community

They are expected to

develop the criticisms of pre-

sent EEC arrangements which

were expressed strongly by

Mr. John Silkin, the Agricui-

ture Minister, in Brussels

last Thursday, much to the

annoyance of other EEC

In particular, Mr. Davies

is expected to scize on figures published last week that the UK is the biggest net contribu-

tor to the EEC budget.

Both major parties

need for changes in the Common Agricultural Policy

and in the budget as whole though they differ both inter-nally and between each other

Some Tories have recently

been critical of suggested

solutions involving a rise in

the EEC Budget, through, say,

an expanded regional fund,

hecause of their desire to

check the overall size of

The main item on the

genda of today's meeting is

how the EEC Budget might be

calls for an adjustment in the

nattern of contributions to

ensure that less prosperous

members do not pay more

than rich countries. Mr. Davies has already welcomed

the idea floated by the Com-

mission that there might be

a progressive element in the way contributions are

Among the other subjects

due to be raised are relations

with Turkey and Yugoslavia

on the eve of further dis-

cussions with Greece about its

entry into the EEC.

a Commission Green Paper

public spending.

calculated.

Britain are agreed on

on the desirable answers.

ministers.

after the election.

By Peter Riddell

Andreotti resigns as Italy coalition falls

policy crats, Republicans and Social Democrats was defeated in the Senate confidence debate at the TEAMSTERS' UNION has launched the first major chalweekend by a single vote, opening the way to an early General lenge to the wage guidelines of President Carter's anti-inflation

policy in the U.S. Early yesterday, weeks of intense talks in the trucking industry over a new three-year wage contract for some 300,000 drivers and warehousemen broke down, even though the two sides were close to agree-

Mr. Frank Fitzsimmons, president of the scandal-ridden union, announced that he would call selective strikes across the country in an effort to force the employers—and the administration—into accepting an agreement which would almost certainly breach the anti-

inflation policy.

President Carter has acknowledged that so far as the wage guidelines are concerned, the settlement in the trucking industry is a critical test. The administration's anti-inflation guidelines have their origins in the Labour Department, which feared that settlements in this year's crucial round of wage negotiations could underpln an even higher rate of inflation.

Mr. Fitzsimmons blamed the talks breakdown on Government intervention in the collective hargaining process

It appeared both sides had accepted a basic \$1.50 an hour increase on the current average of around \$9.40. Since the negotiations opened, however, it has been recognised that the most difficult part would be to reach agreement on the package of benefits, including such things as pension payments and cost of living allowances. So it has proved.

Weather

UK TODAY

SHOWERS in all areas. Snow on high ground being heavy and Generally cold. Max. 10C (50F). London, E., S.E., Cent. S., Cent. N. England, E. Midiands

Sunny intervals, Becoming dry later. Wales, W. Midlands,

W. England, Channel Isles Sunny intervals, showers wintry on hills. Mainly cloudy

Scotland, Uister, N.E. England Wintry showers or longer out breaks of sleet or snow. Sunny

6 Outlook: Unsettled. Showers

or longer outbreaks of rain in many places. Sleet or snow chiefly in the north. Night frosts.

WORLDWIDE									
Y'day Y'day midday middiy °C °F °C °F									
		WIG.	93Y			mid	a.ia		
Ajaccio	F	14	57	Lisban	5	16	61		
Algiers	Ŕ	11	52	Locarno	š	14	57		
Amsdm.	Ċ	Ż	45	London	č	10	50		
Athena	F	16	61	Luxmba.	Ř	4	39		
Bahrain		25	77	Luxor	S	41	106		
Barcina.	0000000000000000000000000000000000000	14	67	Madrid	ř	13	3		
Beirut	š	22	72	Majorca	Ċ	12	54		
Belfass	č	-5	41	Malagg	S	17	63		
Belard,	Č	12	54	Malta	Č	14	57		
Borlin	Ć	5	411	M'chstr	C	9	48		
Bigrritz	C	10	50	Melbne.	C	17	63		
Brighm.	C	9	48	Milan	S	13	55		
Blackol.	С	9	48	M'ntroal	C	2	36		
Bordx.	C	10	50	Mascow	C	4	39		
Boulgn.	Ç	8	46	Munich	F	B	43		
Bristol	C	10	50	Nairobi	S	24	75		
Brusse(s	F	10	50	Napies	C	13	65		
Budpst.	F	10	50	Nwesti.	C	8	46		
B. Ajres	R	21	70	N York	C	15	59		
Calro	s	35 .	95	Nice	S	14	57		
Cardiff	F	10	50	Oporto	Č	13	55		
Caa p,ca	Č	16	- 61	Osto	R	.7.	45		
Capa T	5	20	68	Paris	C	10	50		
Chicago	Ğ	. 7	40	Perth	č	23	73		
Calagne	č	. 7	45	Prague	F	5	41		
Conhan.	Č	4	19	Revkivk.	C	-3	28		
Cortu	Ħ	13	57.	Ahodes	č	19			
Dublin	Ħ	.7	45	Rome	Ę	14	57		
Obrynk.	č	12	5/	Salzbq.	Ę	3ว์	90		
Ednogh.	Š	6	4? 64	Singapr.	č		36		
Faro Florence	S	18 15	50	Strasbq.	č	7	45		
Frenkit.	A	5	41	Sydney	Ř	21	70		
Funchal	ŝ	38	ra tra		3	18	61		
Geneve	Š	9	48	Tanqier Tehran	Š	19	66		
Gibritt.	Š	19		Tol Aviv	5	75	77		
Glasgow	Ř.		30	Tenerite	č	12			
G'msey	Ĉ	9	48	Tokyo	š	15	59		
Helsinki	Ċ	3	37	Toronto	č	5	40		
H. Kong	š	25	7	Tunis	č	14	57		
Innabrk.	R	-5	41	Valencia	Ę	17	63		
Invross	Ë	7	4E	Venice	ċ	11	52		
Indontal	Ř	15	-50	Vienna	ř	10	50		
Jersey	Ë	9	40	Wargaw	Ř	Š	41		
Jo'hum	Ċ	25	77	Zurich	F	7	45		
L. Pims.	F	18	64				1		

C—Cloudy. F—Fair Fq—Fog. R—Rair S—Sunny. SI—Sleet. Sn—Snaw.

Government of Christian Demo-

After the vote, 150 against and 149 in favour, Sig. Andreotti, the Prime Minister tendered his resignation to Sig. Sandro Pertini, the Italian Presi-

Although President Pertini might try to seek an 11th-hour compromise to avoid early elections, a reconciliation between the country's two main parties, the Communists and the Christian Democrats, is generally ruled out at this stage.

The President has summoned Sig. Pietro Ingrao, the Com-munist leader of the Chamber of Deputies, and Senator Amintore Fanfani. the Christian Democrat leader of the Senate, to a meeting today.

The Communists. who are holding their 15th national con-

gress, again declared unambi- munists are indicating in their guously at the week-end that any agreement would have to see direct participation by their party in any new Government. The presence of Communist Ministers in the Cabinet has been rejected equally firmly by the Christian Democrats.

In the face of the deadlock, President Pertini is expected to dissolve Parliament in order to combine the General Election with the elections for the new European Parliament, to be held in Italy on June 10.

Opposition

During the two electoral cam-paigns, Sig Andreotti's Govern-ment would remain temporarily in office as a caretaker adminis-

The coalition Government was widely expected to lose the confidence vote because of the opposition of the two main Left-wing parties, the Com-munists and the Socialists. For their part, the Com-

party's national congress that line that would lead to their opposing any future Govern-ment in which they were not directly represented.

That largely reflects the discontent and discomfort that the former alliance with the Christian Democrats provoked with-in the party and the leadership's attempts to recover the vote on the Communist Party left.

Meanwhile, the country's climate of political uncertainty has deteriorated in the light of growing signs of renewed inflation and the possible repercussions of the controversial Bank of Italy affair, which has now a significant dispute caused between the country's political and economic forces and the judiciary.

Official figures released at the weekend show a 1.7 per cent increase in wholesale prices over January, confirming the worzying trend of the past few

Fresh Government funds up to £150m set for BL

BY JOHN ELLIOTT, INDUSTRIAL EDITOR

totalling about £100m to £150m today for BL, formerly British Leyland.

The way will be cleared for the Industry Bill, which raises the borrowing limits of the National Enterprise Board to £4.5bn, to receive the Royal Assent this week.

This provides BL with the money it urgently needs to push ahead with investment pro-gramme. It will enable the NEB to fund both BL and Rolls-Royce in the coming months, despite the uncertain future that some of its activities may face under a Conservative

NEB's five-year corporate plan, which has been with the De- Lords. partment of Industry for some weeks, will be approved before the General Election.

without having to recall the plan from Sir Leslie Murphy, chairman of the NEB.

Conservative leaders have made clear that they intend to reduce the NEB's entrepreneurial activities while maintaining it at least to look after lame-duck companies such as BL and Rolls-Royce. minster and Whitehall at the

intensive discussions in Westminster and hWitehall at the end of last week. Although there appeared no way that the Industry Bill,

which is in the Lords today for its Third Reading, could be held up, it is understood that an inovernment. formal arrangement has been It seems unlikely that the reached between the Government and Tory Whips in the

This is that once the Bill receives the Royal Assent. the NEB will make extensive use of next its new borrowing powers only Government an immediate to fund BL and Rolls-Royce in 1982.

FRESH Government funds chance to review its proposals during the General Election

This has some political significance, but should not affect the operations of the NEB, which is unlikely to finalise any major entrepreneurial deals in the coming month. In any case it has £130m of its present £1bn borrowing limit still in hand.

Mr. Eric Varley, the Industry Secretary, is due to announce the new funding arrangements for BL in the Commons in to a Parliamentary on the company's

BL needs a further tranche of the £1hn long-term advances agreed by the Government to fund major investment projects. which this year are expected to exceed last year's total of £233m.

The projects include expand-

ing Land Rover and Range Rover production, introducing the "super-mini" next year, next year, and replacing the Marina range

Unions seek Whitley break-up

BY PHILIP BASSETT and NICK GARNETT

IN A further bout of inter- remainder on March 31 next union dispute the two biggest year. Service unions decided yesterday to attempt dismantling the whole national negotiating machinery for the 600,000 civil servants.

strike over pay, which may seriously effect air flights and other services, the Civil and Public Services Association and the Society of Civil and Public Servants decided to withdraw from all meetings of the central policy-making committee of the Staff Side on the National Whitley Council.

The council, made up of an eight-union staff side and representatives of the Civil Service Department, has negotiated wages and conditions for nearly 60 years.

In a bitter procedural wrangle with other unions and the Government, the two unions, together representing half the civil servants, have decided to inform the national staff side meeting on Thursday that they have no confidence in it and that the present machinery should be

The executive of both unions. which intend drawing up alternative proposals for a national negotiating system, formally rejected the Government pay offer of 9 per cent, with half the rest of the rises due from a comparability study denied that the meeting was to be paid on August I and the secret and were adamant that

The Institution of Professional Civil Servants, the First Divi-sion Association and the Association of Government Supervisors and Radio Officers are On the eve of today's one-day prepared to recommend accept-

> The Prison Officers' Association has told Ministers that its overtime ban will go ahead until its executive considers the offer on Wednesday. The Civil Service Union and the Inland Revenue Staffs Federation are both unhappy with the offer. since many of their members are low-paid and the offer is weighted toward the higher staff

> The present crisis on the staff side stems from a meeting on Thursday, a day before formal pay negotiations, at which Mr. Roy Hattersley, the Prices Secretary and public-sector pay Civil Service unions.

Mr. Ken Thomas and Mr. Gerry Gillman, general sec-retaries of the CPSA and the Society of Civil and Public Servants, said yesterday that they had been deliberately excluded from what was in effect a "secret" meeting on Thursday.

The Civil Service Department and some other unions

the two general secretaries had been invited A CPSA statement said the

union had full confidence in Mr. Bill Kendall, sccretary-general of the Staff Side, who was also not at the Thursday meeting, and that the blame for the affair lay at the door of

Mr. Hatterslev. Why civil servants strike, Page 27

Continued from Page 1

Carter at N-plant

handling and outcome of the hydrogen gas bubble expanding. accident. The NRC in Washington has briefed British, Swedish announced that its insurers, C and Japanese representatives, while France and West Germany take claims from residents for have flown in nuclear experts.

keep the large hydrogen gas the \$1bn (£500,000) plant itself co-ordinator, met general sec- bubble filling the top of the could run into bundreds of retaries of five of the smaller reactor from reaching any millions of dollars. explosive level. Metropolitan-Edison said vesterday that gases Secretary, has been urged to were being drained from the stop immediately work on the reactor to prevent this. The proposed nuclear power station second problem is to reduce the at Torness in East Lothian. The size of the bubble, which is big enough to block further cooling Atomic Menace, making an

of the reactor fuel core. fuel rods has kept reactor temperature high-still around 280 fahrenheit - while pressure inside the reactor is heing maintained at 1,000 lbs sylvania, will hang over the per square inch to stop the people of East Lothian."

The power company has American Nuclear Insurers, will any expenses of their evacuation The immediate concern is to and for any damage. Damage to

Mr. Bruce Millan, the Scottish Scottish Campaign to Resist the appeal to Mr. Millan yesterday Severe damage to uranium said: "This was the accident they said couldn't happen.

If Torness is built then a similar threat to that over the people of Harrisburg, PennTHE LEX COLUMN

The Budget that never was

Following the defeat of the Government in the Commons the Conservatives have refused to allow Mr. Denis Healey to pre-sent a normal Budget speech iomorrow. Many weeks of work by a top Treasury team have therefore been for nothing. How ever, from a usually reliable source we have been able to obtain a draft of what the Chan-cellar had intended to say.

"Since this is to be my final Budger speech. I hope my honourable friends in the House will forgive me if I start on a personal note. I was touched this morning to receive a message of congratulations and thanks from a representative of the Association of Tax Consultants, in grateful recognition of all that I have done for their volume of business since 1974.

"They have presented me with the Golden Loophole award for 1979, an honour which carries with it a free holiday in the Cayman Islands. "Messages of congratulations and best wishes have also come from the Society of Gilt-Edged

Dealers, the Lease Brokers Federation and the Guild of Investment Currency Traders, the last of which have said they really to not know what they will do when I have gone. "My period of stewardship is ending with the economy in an unusually healthy state. As you

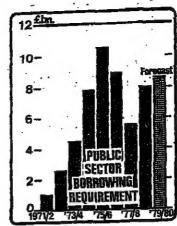
know, serling has been one of the strongest currencies in the ently, in spite of the absence of the monthly trade feures, and investors in the City have been literally fighting to buy Covernment securities. "Our efforts to stimulate the so-called black economy have been highly successful, and I am

Consequently, no major decisions are likely to be taken and the other EEC grateful to Sir William Pile. Chairman of the Board of governments will not want to Inland Revenue, for his statisrical work on the subject.
Accordingly today we are publishing revised national income figures which take this unofficial activity fully into account. They have serious discussions until The British team will be headed by Dr. David Owen, the Foreign Secretary who is believed to have decided to attend only after the election was announced, and by Mr. Demzil Davies, the Minister of show that cronomic growth last year was not 3 per cent but \$ per cent.

Stop for Red

I must, however, make one apology. We have been unable to produce the normal Red Book which customatily accompanies a full Budget statement, because of an industrial dispute in the Civil Service. When bur computer pro-

grammers learned of the low budgeted figure for the rise in their salaries they immediately went on strike. However, the calculations for the Budget have been carefully checked by my



"There is much talk these days about the public sector requirement-far borrowing requirement—far too much talk in my view, considering that our Government borrowing in this country is so much lower than in many countries overseas such as Turkey, Argentina or Zaire, to

name just a few. I must say that I have had some difficulty in deciding exactly what the trend of borrowing in the coming financial year was likely to be. You may be aware that the Treasury customarily produces four fore-casts of the PSBR during pre-Budget periods.

"One is a ridiculously high one that is leaked to some of the more credulous City analysts so that the figure which is eventually published at the time of the Budget, will seem unex-pectedly good by comparison. "The second is an estimate that is discreetly circulated to

the Cabinet to persuade the Departments to keep their spending down. The third is the one my officials tell me. But they keep secret their central estimate, the one they really phoney figure which

was told to the young men who write brokers circulars was, you may have noticed from Press coverage, no less than This was after the implementation of the indexation of

income tax allowances which is may Day.

What is may Day.

Way Day.

Will regret that because of my the leaderincome tax allowances which is required by the so-called Rooker-Wise Amendment, a which I believe ship of the Labour Party it will possible to extend the to the 'Healey bonus.' "Plainly this £10bn was an

take account of the huge savings in public-sector salary costs sector pay will show that salaries again."

are at least 10 per cent too high, with a few exceptions, such as the Treasury. "Several other measures are relevant to the PSBR 1 am proposing, for instance that gilt-edged investors will be offered a highly attractive opposit. acto

onered a nighty attractive deposition that to convert into a new form of Treasury Deferred stock, the key feature of which is that no interest will be paid during the 1979-80 financial year.
"I have also ordered the Bank of England to lower its Mini-

mum Lending Rate from 13 is 4 per cent with immediate effect. No longer will British interest rates be anomalously higher

rates be anomalously higher than those of weak currency countries like West Germany. "This will have the purely incidental effect of reducing the Government's short terminary and adding this economy to that on gits I estimate that the total saving of debt interest will be almost 53bn. almost £3bn.

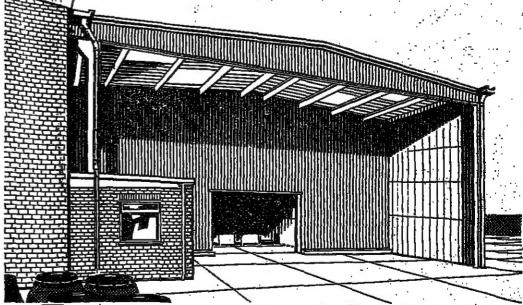
"Making these adjustments to the secret Treasury PSBR fore-cast which I have at last forced out of my officials I can now say that the borrowing requirement on unchanged policies in 1879-30 would have been no more than

Much relief

"This allows me to propose tax reliefs of £6bm. You will appreciate that since the Budget taken as a whole is a strictly neutral one there is no question of there being any element of electioneering in this. A precaution is necessary, however. Because the City has shown a tendency to misinterpret my Budgets in the past the stock market and the foreign exchanges will be closed until further notice.

My specific measures arebriefly as follows. All duties on alcoholic drinks will be abolished, as will all betting and gaming taxes. Value added tax will be halved. As for income tax, the standard rate will be cut to 300 and as a special gesture all taxpayers are to receive a cash bonus of £10 on

benefit of the income tax relief fully to the higher rate bands. absurd figure, which did not But I would point out that in cutting the maximum rate of tax paid on investment income which are likely to arise from from 98 to 97 per cent. I am extensive strike action this permitting net of tax income to year. Moreover, we estimate rise by no less than a quarter. that the comparability studies After this, tax consultancy will to be carried out on public- surely never be the same



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faster solutions to most building problems. Fire resistance is just one of those problems. Crendon frameworks have fire resistance built in. Up to 4-hour ratings can be given. To achieve the same degree of resistance by encasing steelwork after it has been erected is just another way of spending money, Why not consult with Crendon on your next factory or warehouse project and find out early on whether a concrete frame is not going to serve you best after all? But do it before designing gets too far and we'll show you all the fixing and fitting arrangements which Crendon can always precast into a concrete



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